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CONFIDENTIAL

FREQUENCY LIST '76

by Robert B. Grove

Listeners are reminded that the U.S.A. Communications Act of 1934, Section 305, as amended (47 U.S.C. Section 605), prohibits anyone, not authorized by the sender, from intercepting any radio communication not intended for reception by the general public, and divulging or beneficially using that information from such monitoring.

Third Edition

CONFIDENTIAL Frequency List

by Robert B. Grove

GILFER Associates, Inc.

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Foreword

Radio communications continues to play a vital role in the daily functioning of todays' society. At this low point in the sunspot cycle, tens of thousands of radio signals are crammed into a very small part of the HF spectrum. Although sophisticated techniques make identification of some signals virtually impossible, you can still tune across the shortwave band and intercept hundreds of interesting non-broadcast and non-ham radio transmissions.

These transmissions can be Coast Stations calling ships at sea, military aircraft calling ahead for weather information, voice mirrors of Fixed Service stations, an Embassy Station sending encoded ambassadorial instructions, RTTY press, FAX, etc. Identification, however, is frustrating because only the International Telecommunications Union (a treaty organization based in Geneva, Switzerland) makes any effort to register radio transmitters and frequencies. This is done on a purely voluntary basis by each country with various degrees of timeliness and accuracy.

Any listener can spend $1500.00 to obtain a complete set of ITU Callbooks and Frequency Lists. Unfortunately, this would provide far more information than needed—and wouldn't include thousands of signals that are not officially registered with the ITU.

The answer to this dilemma is the CONFIDENTIAL FREQUENCY LIST—a distillation of various data sources, cross-checked by hundreds of monitors throughout the world. In this all-new edition, a selection has been made of the most interesting non-broadcast frequencies and services; including many channels and stations never previously identified in print.

It is specifically not the intent of either the author or the publisher to jeopardize any nationals' security through divulgence of classified material. Virtually every station and frequency mentioned in the CONFIDENTIAL FREQUENCY LIST has been, or can be, heard by the casual listener with modest receiving equipment. Identifications were made from unclassified Federal and international documents. It is, however, necessary to stress that the U.S.A. Communications Act of 1934 (as amended) specifically prohibits your divulging the content of received radio communications to a third party, or using the content for personal gain.

Assembling a compendium like the "CFL" is made possible by the cooperation of many individuals. In particular I would like to thank Walter Hahn for his contribution of RTTY source material; Vince Hughes, WB4KIE, who isn't just satisfied with listening, but looks for transmitter sites; and my editor/publisher, Perry Ferrell for his valued cross-checking. Thanks also to the monitors that supplied important observations of difficult to hear stations. Last—and as any author knows—it takes a toll on family life; so to my son, Bill, my frown is gone. To Judy, my wife, my continued admiration for your patience; and to you both, my deepest love.

ROBERT B. GROVE

January, 1976

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Contents

SECTION		PAGE
	Foreword	3
1	Listening In Below 100 kHz *A revealing look at the very low frequencies*	7
2	C.I.R.M. *All about the "Centro Internazionale Radio-Medico"*	13
3	Embassy Stations *Radio transmitters where you least expect to find them*	13
4	United Nations *Complex networks help preserve the peace*	19
5	Coast Stations *Old fashioned CW in everyday use*	22
6	Antarctica *The only link with the outside world*	28
7	Foreign Military *Some not so confidential CW/RTTY/SSB communications*	30
8	INTERPOL *International Criminal Police Organization*	33
9	Communist Broadcast Feeders *Chinese, Korean and Russian SSB feeds*	35
10	R.C.M.P. *Backup communications net throughout Canada*	36
11	RTTY Press *Latest information--including schedules*	37
	RTTY Press Agency Abbreviations	42
12	Numbers Stations *Off-the-air monitoring, but what are they?*	43
13	FCC Backup Net *Just in case the landlines go out*	44
14	Canadian LF Aero Beacons *Stations with transcribed weather forecasts*	46
15	Department of Justice Backup Net *Another "just in case" network--Border Patrol and FBI*	46
16	Fixed Service Stations Monitored *Culled from many sources around the world--with identification of those using "voice mirrors"*	49
17	VOLMET & Aero Weather *AM and SSB broadcasts on hourly schedules*	59

SECTION PAGE

18 LF Broadcasting Stations 61
Compilation of the super-power Europeans

19 Broadcast Feeders 62
SSB program feeds of the International Broadcasters

20 Time Signals & Standard Frequencies 64
A breakout according to intended use

21 AMVER 67
Automated Mutual-assistance VEssel Rescue system

22 FAX & RTTY Weather 68
Identifying dozens of continuously operating stations

23 US Air Force & Navy 72
Codenames and frequencies used by the US Air Force and the US Navy in the HF spectrum

24 Potpourri 74
Hundreds of frequencies identified by the use--including a selected listing of VHF/UHF channels

1 Listening In Below 100 kHz

Specialized communications receivers—such as the Drake DSR-2 and National HRO-500—have encouraged casual listening for stations operating below 100 kHz. While only 15 years ago this was a desolate part of the radio spectrum, it's now packed with a variety of CW and RTTY (very narrow shift) signals. Because of the propagation characteristics of the very low frequencies, many of the "super-power" nations use super-powerful transmitters below 30 kHz to communicate (one-way) with their patrolling nuclear submarines. Transmitters with input powers of 1,000,000 watts are not uncommon. Below 14 kHz there are highly sophisticated navigational systems (USA "Omega") operating around the world. Both the USSR and USA systems can be heard just about anywhere at any time. Radiolocation and navigational systems also use frequencies around 70, 85 and 100 kHz. Many of the stations in this list are "Fixed Service" point-to-point (used during ionospheric storms) or message handling to ships at sea. When the communications path or circuit had been identified and filed with the ITU, it is included in the material below.

kHz	Call	Location	Power (kW)	Remarks
14.1	NAA	Cutler, ME	1 MegW	
14.29	SOA20	Warsaw, Poland	200	to Peking, P.R.C.
14.3	UBE2	Petropavlovsk Kam., USSR	500	
14.5	HWU	Le Blanc, France	250	into North Atlantic Ocean
14.6	UVA	Batumi, USSR	100	into Black Sea
14.7	NAA	Cutler, ME	1 MegW	
	NEJ	Seattle, WA	1 MegW	worldwide
	NHB	Kodiak, AK	1 MegW	into N. Pacific Ocean
	NLK	Seattle, WA	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	
	NPN	Guam	1 MegW	worldwide
14.8	NAA	Cutler, ME	1 MegW	
14.881		Komsomol'sk na Amure, USSR	500	Navigational system
		Krasnodar, USSR	500	" "
		Novosibirsk, USSR	500	" "
14.9	NBA	Balboa, Canal Zone	1 MegW	worldwide
15.0	UIK	Vladivostok, USSR	100	sea of Japan
15.1	FUO	Bordeaux, France	500	worldwide
	HWU	Le Blanc, France	500	worldwide
	VII	Bombay, India	100	Arabian Sea/Indian Ocean
15.3	NEJ	Seattle, WA	1 MegW	
	NHB	Kodiak, AK	1 MegW	
	NLK	Seattle, WA	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	
	NPN	Guam	1 MegW	
	EVT2	Ostrov, USSR	200	Arctic Ocean
15.5	NAA	Cutler, ME	1 MegW	worldwide
	NPM	Pearl Harbor, HI	1 MegW	worldwide
	NSS	Washington, DC	1 MegW	
	NWC	Northwest Cape, Australia	1 MegW	
15.6	EWB	Odessa, USSR	1 MegW	worldwide
15.625		Komsomol'sk na Amure, USSR	500	Navigational system
		Krasnodar, USSR	500	" "
		Novosibirsk, USSR	500	" "
15.7	NPG	San Francisco, CA	500	net
	NPL	San Diego, CA	500	net
	NPM	Pearl Harbor, HI	1 MegW	net
15.975	GBR	Rugby, England	750	worldwide
16.0	GBR	Criggion, England	250	Time/Standard
16.2		Yosami, Japan	500	worldwide
	UGK	Kaliningrad, USSR	500	worldwide
16.4	JXN	Helgeland, Norway	350	
16.5	SOA30	Warsaw, Poland	200	to Peking, P.R.C.
16.6	NPM	Pearl Harbor, HI	1 MegW	
16.8	FTA2	St. Assise, France	250	
17.1	UMS	Moscow, USSR	1 MegW	
17.2	SAQ	Varberg, Sweden	200	
17.44		Yosami, Japan	500	worldwide
17.6	JXZ	Helgeland, Norway	350	

kHz	Call	Location	Power (kW)	Remarks
	SAO40	Warsaw, Poland	200	
17.8	NAA	Cutler, ME	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	
	NSS	Washington, DC	1 MegW	
17.9	UBE2	Petropavlo, USSR	500	worldwide
18.0	NBA	Balboa, Canal Zone	500	
	NLK	Seattle, WA	1 MegW	
	NPG	San Francisco, CA	1 MegW	
	NPL	San Diego, CA	1 MegW	
18.1	UFOE	Matochkin Shar, USSR	100	Sea of Norway
18.2	JJH	Kure, Japan	500	
	NAH	New York, NY	200	
	NSS	Washington, DC	1 MegW	
18.4	NAD	Boston, MA	200	
	NAH	New York, NY	200	
	NAK	Annapolis, MD	200	
18.5	NAA	Cutler, ME	1 MegW	
18.6	NAA	Cutler, ME	1 MegW	
	NEJ	Seattle, WA	1 MegW	
	NHB	Kodiak, AK	1 MegW	
	NLK	Seattle, WA	1 MegW	
	NPG	San Francisco, CA	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	worldwide
	NPN	Guam	1 MegW	worldwide
18.8	NAD	Boston, MA	200	
	NAH	New York, NY	200	
	NAK	Annapolis, MD	200	
18.9	UMV	Rostov, USSR	1 MegW	worldwide
19.0	GQD	Anthorn, England	500	
	MHW	Criggion, England	350	
	MHW	Rugby, England	250	
	NPM	Pearl Harbor, HI	1 MegW	
	NSS	Washington, DC	1 MegW	
19.2	SOA50	Warsaw, Poland	200	to Peking, P.R.C.
19.4	NEJ	Seattle, WA	1 MegW	worldwide
	NHB	Kodiak, AK	1 MegW	worldwide
	NLK	Seattle, WA	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	
	NPN	Guam	1 MegW	
19.6	GBZ	Anthorn, England	500	worldwide
	GBZ	Criggion, England	350	
	GBZ	Rugby, England	250	worldwide
19.7	UGE	Arkhanghelsk, USSR	150	into Barents Sea
19.8	NPG	San Francisco, CA	1 MegW	net
	NPL	San Diego, CA	1 MegW	net
	NPM	Pearl Harbor, HI	1 MegW	worldwide
20.0	JG2AR	Tokyo, Japan	3	standard frequency
	WWVL	Boulder, CO	40	standard frequency
20.27	ICV	Tavolara, Italy	500	worldwide
20.76	ICV	" "	500	"
21.05	HWU	Le Blanc, France	200	North Atlantic Ocean
21.37	GYA	London, England	120	North Atlantic Ocean
21.4	NAA	Cutler, ME	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	
	NSS	Washington, DC	1 MegW	
21.75	HWU	Le Blanc, France	100	North Atlantic Ocean
22.1	NAD	Boston, MA	200	
	NAH	New York, NY	200	
	NAK	Annapolis, MD	200	
22.3	NAA	Cutler, ME	1 MegW	
	NPC	Seattle, WA	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	
	NWC	Northwest Cape, Australia	1 MegW	
22.35	NAA	Cutler, ME	1 MegW	Atlantic Ocean
	NAD	Boston, MA	200	
	NAH	New York, NY	250	
	NAK	Annapolis, MD	200	

kHz	Call	Location	Power (kW)	Remarks
23.0	UFQE	Matochkin Shar, USSR	100	into Barents Sea
23.4	DMB	Mainflingen, G.F.R.	10	to New York
	NPM	Pearl Harbor, HI	1 MegW	
24.0	NBA	Balboa, Canal Zone	1 MegW	worldwide
	NLK	Seattle, WA	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	
25.3	NAA	Cutler, ME	1 MegW	North Atlantic Ocean
25.82	NAA	Cutler, ME	250	net
	NAH	New York, NY	200	North Atlantic Ocean
	NSS	Washington, DC	1 MegW	North Atlantic Ocean
26.1	NEJ	Seattle, WA	1 MegW	
	NPG	San Francisco, CA	1 MegW	
	NPM	Pearl Harbor, HI	1 MegW	net
26.6	CAA2A	Santiago, Chile	50	net
27.0	FTA27	Paris, France	25	to New York
27.5	EWC4	Vladivostok, USSR	80	into Sea of Japan
28.5	NAU	Fort Allen, PR	100	Atlantic Ocean
	NPL	San Diego, CA	500	net
	NPN	Guam	50	net
28.64	RAM	Moscow, USSR	1 MegW	worldwide
30.0	PWI	Recife, Brazil	20	
30.3	UGK2	Kaliningrad, USSR	100	into Baltic Sea
30.6	NAF	Newport, RI	50	net
	NPC	Bainbridge, WA	100	net
	NPG	San Francisco, CA	50	net
	NPL	San Diego, CA	500	net
	NUD	Adak, AK	100	net
32.55	FTA32	St. Assise, France	25	
32.9	NAU	Isabella Segun, PR	100	Atlantic Ocean
	NBA	Balboa, Canal Zone	50	net
33.3	NGR	Kato Soli, Greece	100	Mediterranean Sea
33.95	LCD	Jeloey, Norway	25	net
36.55	LCD	" "	25	net
37.0	UWR	Murmansk, USSR	50	Arctic Ocean
38.0	TFK	Reykjavik, Iceland	50	Washington, DC
40.0	JJF2	Tokyo, Japan	30	standard frequency
40.4	SAS	Varberg, Sweden	40	
40.75	GXH	Thurso, Scotland	100	North Atlantic Ocean
	NAM	Norfolk, VA	100	Guantanamo
	NAU	Isabella Segun, PR	100	
	NPG	San Francisco, CA	100	
	NPL	San Diego, CA	100	
	NPN	Guam	100	
	NPO	Luzon, Philippines	50	
	NSS	Washington, DC	5	
	NST	Londonderry, N. Ireland	50	
41.5	ORL72	Ruiselede, Belgium	40	New York
42.0	ARL	Karachi, Pakistan	40	Indian Ocean
42.55	SAS2	Varberg, Sweden	40	
43.2	GIX20	Oxford, England	60	traffic
43.79	RAM	Moscow, USSR	120	Washington, DC
44.0	VHB	Belconnen, Australia	200	
	VIX	" "	200	
44.25	SAS3	Varberg, Sweden	40	
44.95	GYN1	London, England	40	
	GYW	Gibraltar	40	
45.6	SAS4	Varberg, Sweden	40	
45.75	VFH	Halifax, NS, Canada	250	North Atlantic Ocean
46.25	DCF46	Mainflingen, G.F.R.	5	net
46.58	GYW	Gibraltar	40	
46.85	GYC	London, England	40	
	MTO21	Crimond, England	40	
47.45	DCF47	Mainflingen, G.F.R.	40	Baltic/North Sea
	DHJ54	Cuxhaven, G.F.R.	40	Baltic Sea
	DHJ57	Kiel, G.F.R.	40	Baltic Sea
	DHJ58	Flensberg, G.F.R.	40	Baltic Sea
	DHJ59	Wilhelmshaven, G.F.R.	40	Baltic Sea

kHz	Call	Location	Power (kW)	Remarks
	NAU	Fort Allen, PR	100	
	NHB	Kodiak, AK	50	
	NPL	San Diego, CA	50	
	NUD	Adak, AK	50	
48.05	CUC4	Lisbon, Portugal	40	
48.6	OLP	Prague, Czechoslavia	25	Moscow
49.55	SAV	Karlsborg, Sweden	40	
50.0	OMA	Prague, Czechoslavia	1	standard frequency
50.2	OLP3	Prague, Czechoslavia	25	
50.45	OLP2	Prague, Czechoslavia	25	Tirana/Bucharest
50.75	FTA50	Lyon, France	135	
51.25	ORL58	Ruiselede, Belgium	40	
51.6	NPL	San Diego, CA	100	
	NUD	Adak, AK	50	
51.7	EWC4	Vladivostok, USSR	30	into Sea of Japan
51.95	GIY20	Oxford, England	60	
	GYA	London, England	60	North Atlantic Ocean
52.3	RTO	Moscow, USSR	100	Berlin
52.65	NGR	Kato Soli, Greece	100	Indian Ocean
54.0	NDI	Naha, Okinawa	50	
	NDT2	Yokosuka, Japan	200	
	NPN	Guam	100	
54.05	NBA	Balboa, Canal Zone	50	
	NPL	San Diego, CA	50	
	NUD	Adak, AK	50	
54.65	LCH	Oslo, Norway	20	
55.25	DCF55	Mainflingen, G.F.R.	10	
55.5	CNL	Kenitra, Morocco	100	Mediterranean Sea
	GXH	Thurso, Scotland	100	
	NPG	San Francisco, CA	250	Pearl Harbor
	NPM	Pearl Harbor, HI	50	San Francisco
	NPO	Luzon, Philippines	50	
55.75	SOA60	Radom, Poland	40	Helsinki
56.35	GLP20	Ongar, England	25	Madrid/Lisbon
57.1	OXE20	Skamlebaek, Denmark	20	
57.4	CNL	Kenitra, Morocco	50	
57.7	LBH	Trondheim, Norway	60	
57.9	NAU	Isabella Segum, PR	100	net
	NEJ	Seattle, WA	50	
	NPG	San Francisco, CA	50	
58.25	SOA70	Radom, Poland	360	Helsinki/Oslo
58.3	NGR	Kato Soli, Greece	100	Indian Ocean
59.0	NGR	" " "	100	Mediterranean Sea
60.0	GBT20	Rugby, England	80	Rome/Lisbon/Madrid
	MSF	" "	80	standard frequency
	WWVB	Boulder, CO	3	" "
61.75	GYA1	London, England	15	
	NHB	Kodiak, AK	50	
	NUD	Adak, AK	50	
62.45	SOA80	Radom, Poland	40	Helsinki/Olso
62.6	FUC	Cherbourg, France	50	North Atlantic Ocean
	FUE	Brest, France	50	
	FUO	Toulon, France	50	Mediterranean Sea
63.0	NHB	Kodiak, AK	50	
	NUD	Adak, AK	50	
63.85	FTA63	Paris, France	40	
64.2	NAM	Norfolk, VA	100	
	NPN	Guam	50	
	NSS	Washington, DC	200	
64.55	GBV20	Rugby, England	60	
64.9	CAD3A	Magallanes, Chile	20	London/ Paris
	SOA90	Radom, Poland	40	
65.25	IRC	Rome, Italy	15	
65.8	FUE	Brest, France	15	
65.9	GXH	Thurso, Scotland	50	North Atlantic Ocean
	NST	Londonderry, N. Ireland	25	Kenitra
65.95	NAW	Guantanamo Bay	50	

kHz	Call	Location	Power (kW)	Remarks
	NPG	San Francisco, CA	50	
	NPL	San Diego, CA	50	
	NPO	Luzon, Philippines	500	Pacific Ocean
66.3	RDW	Moscow, USSR	30	
	RGA	Khabarovsk, USSR	30	
67.0	SLZ	Kristinehamn, Sweden	10	
67.5	AAH	Seattle, WA	10	
68.0	GBY20	Rugby, England	80	
	UPV	Ostrov Dickson, USSR	50	into Kara Sea
68.9	XPH	Thule, Greenland	25	Alert, Canada
69.1	RCK	Novosibirsk, USSR	30	
	UIK	Vladivostok, USSR	17.5	
69.7	DKQ	Königs Wusterhausen, G.D.R.	20	Sofia/Bucharest
69.8	IRD	Rome, Italy	15	
	NPC	Seattle, WA	50	
	NPG	San Francisco, CA	50	
72.0	EVA2	Baku, USSR	20	
72.1	FTA72	St. Assise, France	45	Lisbon
72.3	EVA2	Baku, USSR	20	
	RLQ	Mys Schmidt, USSR	30	
72.45	EAA	Aranjuez, Spain	8	Paris/London
72.5	ARL	Karachi, Pakistan	20	Arabian Sea
72.85	LCE	Jeloey, Norway	45	
72.9	ORL28	Ruiselede, Belgium	10	Oslo/Barcelona
73.25	NHB	Kodiak, AK	50	
	NPR	Dutch Harbor, AK	50	
	MTO21	Crimond, England	40	
73.6	CFH	Halifax, NS	250	North Atlantic Ocean
	VTH	Bombay, India	100	Arabian Sea
73.85	OEV22	Deutsch Altnbg., Austria	30	
74.2	GYD	London, England	10	North Sea
	MTO21	Crimond, England	40	
74.5	DKQ2	Königs Wusterhausen, G.D.R.	20	Sofia/Bucharest
74.55	SAY	Karlsborg, Sweden	10	
74.9	CAC3A	Talcahuano, Chile	20	Santiago
75.0	HBG	Geneveprangins, Switzerld.	40	
75.25	ESJ	Tallinn, USSR	10	
75.6	OXE21	Skamlebaek, Denmark	20	
75.95	GYW	Gibraltar	40	
	NDI	Naha, Okinawa	100	
	NDT4	Kami Seya, Japan	50	
	NPM	Pearl Harbor, HI	100	
	NPN	Guam	100	
	NPU	Pago Pago, Samoa	50	
76.35	TFK	Reykjavik, Iceland	50	North Atlantic Ocean
	SNA20	Radom, Poland	40	Vienna
76.75	RRW	Moscow, USSR	30	
77.15	NAM	Norfolk, VA	50	Atlantic Ocean
	NWP	Argentia, NFLD	50	" "
77.5	DCF77	Mainflingen, G.F.R.	10	
	GLB20	Ongar, England	10	
77.82	GYA2	London, England	40	
	MTO21	Crimond, England	40	
77.85	HAU	Szekesfehervar, Hungary	30	
78.9	NPM	Pearl Harbor, HI	50	
	NPN	Guam	50	
79.5	FTA79	Lyon, France	5	
	FTA79	St. Assise, France	5	
79.8	RMT	Mys Chelyuskin, USSR	30	
79.95	VTO	Vizagapatam, India	50	Bay of Bengal
80.05	TFK	Reykjavik, Iceland	50	North Atlantic Ocean
80.3	GLO20	Ongar, England	15	
80.5	SNA30	Radom, Poland	40	
80.65	NGR	Kato Soli, Greece	100	
	NPC	Seattle, WA	50	
81.0	GYN	London, England	40	
81.35	SNA40	Radom, Poland	40	Stockholm/Oslo

kHz	Call	Location	Power (kW)	Remarks
81.7	FTA81	Paris, France	10	
	NBA	Balboa, Canal Zone	100	
	NPL	San Diego, CA	15	
82.05	HBA	Berne, Switzerland	40	
82.4	YTA	Belgrade, Yugoslavia	40	
82.75	GYB	London, England	40	
	GYW	Gibraltar	40	
83.1	OFA83	Nummela, Finland	40	
83.45	OLT8	Prague, Czechoslavia	5	
83.45	AAH	Seattle, WA	50	
83.8	FTA83	Lyon, France	45	
84.0	JTA22	Ulan Bator, Mongolia	20	
86.0	NPO	Manila, Philippines	500	Guam/Pearl Harbor
86.05	TFK	Reykjavik, Iceland	50	Greenland/NFLD
86.6	SAW	Karlsborg, Sweden	40	
	RRX	Tchita, USSR	40	
86.95	GYW	Gibraltar	40	Atlantic Ocean
87.3	DEA	Bonn, G.F.R.	10	
	ALC	Fairbanks, AK	6	Nome/Anchorage
	ALC22	Nome, AK	15	Fairbanks
87.4	LCU	Jeloey, Norway	15	
87.65	DCF87	Mainflingen, G.F.R.	5	
	RNO	Moscow, USSR	30	
87.8	YQI	Constantza, Romania	20	
88.0	GZO	Hong Kong	40	
	GZV	Mauritius	20	Indian Ocean
	NSS	Washington, DC	50	
	NST	Londonderry, N. Ireland	25	
	OLT	Prague, Czechoslovakia	25	
88.7	PER	Kootwijk, Netherlands	10	
89.4	HBB2	Berne, Switzerland	40	
89.75	RNO	Moscow, USSR	30	
90.1	YTA4	Belgrade, Yugoslavia	40	
	ZRH	Fisantekraal, S. Africa	50	South Atlantic Ocean
91.15	FTA91	Lyon, France	150	
	JMC	Tokyo, Japan	10	
91.5	UIK	Vladivostok, USSR	17.5	
91.85	OLT9	Prague, Czechoslovakia	25	Moscow
92.0	FUC	Cherbourg, France	15	
	FUE	Brest, France	15	
92.2	OLT6	Prague, Czechoslovakia	25	
92.25	SPL	Gdynia, Poland	5	
93.0	FTA93	St. Assise, France	5	
93.6	IRE	Rome, Italy	15	Mediterranean Sea
93.9	FUO	Toulon, France	15	" "
93.95	ALC	Fairbanks, AK	15	Nome/Anchorage
	ALC22	Nome, AK	6	Fairbanks
94.3	VTI	Bombay, India	100	Indian Ocean
94.5	DKQ3	Königs Wusterhausen, G.D.R.	10	Budapest/Moscow
94.65	LCT	Jeloey, Norway	15	
95.0	NPG	San Francisco, CA	50	
95.7	RAU	Tashkent, USSR	25	
96.05	HBB	Berne, Switzerland	40	
96.2	ARL	Karachi, Pakistan	20	Arabian Sea
97.1	DCF97	Mainflingen, G.F.R.	5	
97.45	GYW	Gibraltar	10	
97.7	OLT5	Prague, Czechoslovakia	25	Bucharest
97.8	RTO	Moscow, USSR	100	
98.0	UPV	Ostrov Dickson, USSR	50	Arctic Ocean
98.15	FTA98	Lyon, France	45	
	NPM	Pearl Harbor, HI	50	Pacific Ocean
98.5	TAB	Ankara, Turkey	15	
98.85	OLT2	Prague, Czechoslovakia	40	
99.2	FFK	St. Nazaire, France	10	
99.55	OEV33	Deutsch Altnbg., Austria	40	
99.7	DIU	Königs Wusterhausen, G.D.R.	10	
99.9	CAA2A	Santiago, Chile	20	

kHz	Call	Location	Power (kW)	Remarks
	SPE	Szczecin, Poland	5	
	VPC	Falkland Islands	2	
	VTH	Bombay, India	50	Arabian Sea

2 C.I.R.M.

Unique can be an easily overworked word when describing some of the specialized radio communications services in the HF spectrum. Nevertheless, the "Centro Internazionale Radio-Medico (CIRM)" is unique, and one of its kind. The CIRM was established in Rome, Italy about 40 years ago to provide medical advice to ships at sea. Unlike other radio medical services, the CIRM has a staff of doctors and specialists on continuous around-the-clock duty. CW operators at CIRM maintain listening watches on all of the maritime bands for direct calls or relays from major coast stations (St. Lys, Manila, etc.). Calls may be in Italian, French or English. Thanks to Gerd Klatwitter for this background information.

4342	IRM	Rome, Italy (used on request)
4350	IRM2	Rome, Italy (secondary usage)
6365	IRM3	Rome, Italy (used during winter nights)
6420	IRM	Rome, Italy (secondary usage)
8685	IRM4	Rome, Italy (used on request)
12,760	IRM5	Rome, Italy (PRIMARY)
12,748	IRM	Rome, Italy (secondary usage)
17,105	IRM6	Rome, Italy (used during winter days and throughout summer)
22,525	IRM7	Rome, Italy (secondary usage)

3 Embassy Stations

Tantalizing mystery stations on the short wave bands fall into two categories; the "Numbers Stations" and the "Embassy Stations." The latter are an odd mix of clearly identified calls or frequencies and total "unknowns." A few governments reveal embassy calls and frequencies to the ITU, most do not. Thus, this compilation has been difficult to verify since it comprises some ITU material and a lot of off-the-air monitoring. Many of the frequencies have been measured, but may vary by 10 to 15 kHz as stations move up and down the band to escape interference. Most of the traffic heard on embassy frequencies is CW, although there was an increased use of RTTY in 1975. Very little SSB traffic has been observed.

SPECIAL NOTES: Some governments permit a foreign embassy to use the call prefix of the host country—such as the USA with its use of the "KNY" prefix. Other countries use the prefix from their homelands—such as Sweden, Kuwait, Finland, etc. The USA also seems to share their embassy facilities with military missions and in these instances an "A" prefix will appear in the listing. Obviously, the number of foreign embassies with radio facilities is many times the number listed, but finding an unknown radio frequency is virtually impossible [for example, we were unable to find the frequencies for the Dutch Embassies—other than 18,713 kHz—nor, as a matter of fact, could we identify the numerous USA callsigns sometimes heard on what might otherwise be considered "Embassy" channels].

kHz	Call	Location	Government
3511	9KE205	Baghdad, Iraq	Kuwait
4798	9KE217	" "	"
5079	9KE221	Damascus, Syria	"
5110	KKN44	Monrovia, Liberia	USA
5183.5	9KE222	Beirut, Lebanon	Kuwait
5270.	ACN	La Paz, Bolivia	USA
	KWR86		USA

Embassy Stations

kHz	Call	Location	Government
5320	KWN90	Nicosia, Cyprus	USA
5425	KRH50		USA
5760	9GV300	Accra, Ghana	USA
5763.5	SAO50	Addis Ababa, Ethiopia	Sweden
	SAO51	Helsinki, Finland	"
	SAO52	Baghdad, Iraq	"
	SAO54	Tel Aviv, Israel	"
	SAO56	Damascus, Syria	"
	SAO57	Ankara, Turkey	"
	SAO58	Cairo, Egypt	"
	SAO59	Athens, Greece	"
6340		Moscow, USSR	
6789	KRH50		USA
6866	KWL90		USA
6924.5	KKN50	Washington, DC	USA
	KLA24	La Paz, Bolivia	"
	KWO45		"
	KWR95		"
6979	9KE238	Baghdad, Iraq	Kuwait
6995		Peking, P.R.C.	Vietnam
7380	KKN44	Monrovia, Liberia	USA
7470	KKN43	Washington, DC	USA
7515	ACN	La Paz, Bolivia	USA
7555	KWK50	Tehran, Iran	USA
	AEZ10	" "	"
7564	9KE245	Tehran, Iran	Kuwait
7568.5	9KE246	Baghdad, Iraq	Kuwait
7606.5	SAM38	Moscow, USSR	Sweden
7645	KWK50	Tehran, Iran	USA
	AEZ10	" "	"
7653	KWS78	Athens, Greece	USA
	KWN63		"
	KWU47		"
7656	AEC	Berlin, G.F.R.	USA
7719	KNY23	Washington, DC	Czechoslovakia
7727	KRH50		USA
	KWN96		"
7830	KKN44	Monrovia, Liberia	USA
7839	9KE247	Cairo, Egypt	Kuwait
7841	ACT	Quito, Ecuador	USA
7875	9GV310	Accra, Ghana	USA
7986	9KE249	Damascus, Syria	Kuwait
8035	ACN	La Paz, Bolivia	USA
8173.5	9KE251	Beirut, Lebanon	Kuwait
8194	YMK	Sofia, Bulgaria	Turkey
	YMK1	Damascus, Syria	"
	YMK2	Nicosia, Cyprus	"
	YMK4	Athens, Greece	"
8459.5	KWN90	Nicosia, Cyprus	USA
8888		Moscow, USSR	
9040.5	KNY25	Washington, DC	Rumania
	KNY26	"	Hungary
9169	9KE263	Cairo, Egypt	Kuwait
9224	KWL90		USA
9295	ACU	Tegucigalpa, Honduras	USA
9338	STL7	Addis Ababa, Ethiopia	Sudan
9385	PLG2	Jakarta, Indonesia	Netherlands
9425	KWJ34		USA
9810		Peking, P.R.C.	Vietnam
9862	KNY31	Washington, DC	
9930	9GV301	Accra, Ghana	USA
9978	9GV302	Accra, Ghana	USA
10,100.5	KNY28	Washington, DC	Algeria
10,151.5	SAM21	Berlin, G.F.R.	Sweden
	SAM38	Moscow, USSR	"

kHz	Call	Location	Government
10,151.5	SAM40	Warsaw, Poland	Sweden
10,165.5	SAM38	Moscow, USSR	Sweden
10,205	9GV205	Accra, Ghana	USA
10,255	KWN90	Nicosia, Cyprus	USA
	KWS78	Athens, Greece	"
10,310	KWN90	Nicosia, Cyprus	USA
	KWS78	Athens, Greece	"
10,375	9GV323	Accra, Ghana	USA
10,440	YMK6	Tel Aviv, Israel	Turkey
	YMK8	Bucharest, Romania	"
	YMK9	Amman, Jordan	"
	YMK70	Cairo, Egypt	"
10,470	KKN50	Washington, DC	USA
10,598.5	9KE275	Baghdad, Iraq	Kuwait
10,637.5	KKN50	Washington, DC	USA
10,642.5	KNY26	Washington, DC	Hungary
10,720	KNY28	Washington, DC	Algeria
	7RP20	Paris, France	"
	7RP30	London, England	"
	7RP40	Brussels, Belgium	"
	7RP50	Berne, Switzerland	"
	7RP80	Bonn, G.F.R.	"
	7RQ20	Algiers, Algeria	"
	7RQ30	Peking, P.R.C.	"
	7RV20	Moscow, USSR	"
	7RV30	Stockholm, Swedene	"
	7RV40	Prague, Czechoslovakia	"
	7RV50	Sofia, Bulgaria	"
	7RV60	Belgrade, Yugoslavia	"
	7RV70	Warsaw, Poland	"
	7RW30	Cairo, Egypt	"
	7RX20	Tripoli, Libya	"
	7RY20	Accra, Ghana	"
	7RY90	Lagos, Liberia	"
10,737.5	OHU20	Helsinki, Finland	Finland
	OHU21	Paris, France	"
	OHU22	Bucharest, Rumania	"
	OHU23	Tel Aviv, Israel	"
	OHU26	Belgrade, Yugoslavia	"
10,748	OHU22	Bucharest, Romania	Finland
	OHU23	Tel Aviv, Israel	"
10,790	AEZ10	Tehran, Iran	USA
	KWK50	" "	"
10,808.5	9KE279	Damascus, Syria	Kuwait
10,818.5	9KE280	Beirut, Lebanon	Kuwait
10,880	ACS	San Salvador, El Salvador	USA
10,886.5	OHU20	Helsinki, Finland	Finland
	OHU21	Paris, France	"
10,995	9KE278	New Delhi, India	Kuwait
10,996	*(all 7R--- calls as on 10,720 kHz)*		
11,005	7RQ20	Algiers, Algeria	Algeria
11,052	9KE292	Damascus, Syria	Kuwait
11,068	9KE293	Cairo, Egypt	Kuwait
11,090	KNY25	Washington, DC	Rumania
11,095	KGA61	Washington, DC	USA
11,110	KNY29	Washington, DC	England
11,410	ACT	Quito, Ecuador	USA
11,416	9KE295	Jidda, Saudi Arabia	Kuwait
11,419	9KE296	Beirut, Lebanon	Kuwait
11,542	KKN36		USA
11,635	KKN44	Monrovia, Liberia	USA
	9GV303	Accra, Ghana	"
12,022.5	KGA62	Washington, DC	USA
	KKN43		"
	KKN50	Washington, DC	"

Embassy Stations

kHz	Call	Location	Government
12,047.5	KKN50	Washington, DC	USA
12,111.5	KKN50	Washington, DC	USA
12,116	9KE302	Beirut, Lebanon	Kuwait
12,154	9KE304	Damascus, Syria	Kuwait
12,164	9KE305	Khartoum, Sudan	Kuwait
12,205	KNY24	Washington, DC	G.F.R./Thailand
12,210	KWL90		USA
12,306	SAM	Stockholm, Sweden	Sweden
	SAM20	Athens, Greece	"
	SAM21	Berlin, G.F.R.	"
	SAM36	Budapest, Hungary	"
	SAM39	Prague, Czechoslovakia	"
	SAM40	Warsaw, Poland	"
	SAM46	Baghdad, Iraq	"
	SAM47	Beirut, Lebanon	"
	SAM52	Tel Aviv, Israel	"
13,370	YML1	Rome, Italy	Turkey
	YML2	Belgrade, Yugoslavia	"
	YML3	Baghdad, Iraq	"
	YML4	Vienna, Austria	"
	YML5	Prague, Czechoslovakia	"
	YML6	Brussels, Belgium	"
	YML7	Moscow, USSR	"
	YML8	Algiers, Algeria	"
	YML9	Ankara, Turkey	"
	YMN9	Tirana, Albania	"
13,377.5	KNY21	Washington, DC	Yugoslavia
	KNY23	"	Czechoslovakia
13,379	HGX44	Baghdad, Iraq	Hungary
	KNY26	Washington, DC	"
13,434.5	OHU25	Peking, P.R.C.	Finland
13,600		Peking, P.R.C.	Vietnam
13,605	KNY27	Washington, DC	Switzerland
13,646	KKN50	Washington, DC	USA
13,754	9KE316	Cairo, Egypt	Kuwait
13,914.5	OHU25	Peking, P.R.C.	Finland
14,355	SAM70	Addis Ababa, Ethiopia	Sweden
	SAM71	Nairobi, Kenya	"
14,360	KWN90	Nicosia, Cyprus	USA
	KWS78	Athens, Greece	"
14,365	2D6	Tehran, Iran	Czechoslovakia
14,538	9KE325	Damascus, Syria	Kuwait
14,548		Peking, P.R.C.	Vietnam
14,636	9KE326	Beirut, Lebanon	Kuwait
14,649	KNY20	Washington, DC	Poland
	KNY23	"	Czechoslovakia
14,662.5	OHU21	Paris, France	Finland
	OHU22	Bucharest, Rumania	"
	OHU23	Tel Aviv, Israel	"
	OHU26	Belgrade, Yugoslavia	"
14,694.5	OHU22	Bucharest, Romania	Finland
	OHU26	Belgrade, Yugoslavia	"
14,770	STL24	London, England	Sudan
14,772.5	KKN51	Washington, DC	USA
14,775		Moscow, USSR	
14,782	KWL90		USA
14,820	HGX21	Budapest, Hungary	Hungary
14,875	KNY21	Washington, DC	Yugoslavia
14,880	KKN50	Washington, DC	USA
14,895	KKN44	Monrovia, Liberia	USA
	9GV317	Accra, Ghana	"
14,945	ACN	La Paz, Bolivia	USA
14,970	SAM	Stockholm, Sweden	Sweden
	SAM20	Athens, Greece	"
	SAM26	London, England	"

kHz	Call	Location	Government
	SAM35	Belgrade, Yugoslavia	Sweden
	SAM36	Budapest, Hungary	"
	SAM39	Prague, Czechoslovakia	"
	SAM46	Baghdad, Iraq	"
	SAM49	Jidda, Saudi Arabia	"
	SAM50	Ankara, Turkey	"
	SAM51	Tehran, Iran	"
	SAM52	Tel Aviv, Israel	"
	SAM57	Dacca, Bangladesh	"
	SAM60	Islamabad, Pakistan	"
	SAM62	Peking, P.R.C.	"
	SAM70	Addis Ababa, Ethiopia	"
	SAM71	Dar es Salaam, Tanzania	"
	SAM74	Nairobi, Kenya	"
	SAM83	Santiago, Chila	"
14,989	*(all 7R--- calls as on 10,720 kHz)*		Algeria
15,480	YML6	Brussels, Belgium	Turkey
	YML7	Moscow, USSR	"
	YML8	Algiers, Algeria	"
	YML12	Paris, France	"
15,492.5	KKN35	Washington, DC	USA
15,542	KKN36	Washington, DC	USA
	KNY24	"	G.F.R./Thailand
15,701	SNN66	Warsaw, Poland	Poland
15,704	KNY21	Washington, DC	Yugoslavia
	KNY23	"	Czechoslovakia
15,727.5	OHU25	Peking, P.R.C.	Finland
15,748	SNN51	Warsaw, Poland	Poland
15,804	KNY20	Washington, DC	Poland
	KNY23	"	Czechoslovakia
15,864	9KE338	Khartoum, Sudan	Kuwait
15,871.5	OHU25	Peking, P.R.C.	Finland
15,917	KKN44	Monrovia, Liberia	USA
15,918	*(all 7R--- calls as on 10,720 kHz)*		Algeria
15,957	KWK50	Tehran, Iran	USA
16,020		Cairo, Egypt	Sudan
16,036.5	9KE341	Cairo, Egypt	Kuwait
16,065	KNY25	Washington, DC	Rumania
16,149.5	KRH50		USA
16,154		Moscow, USSR	
16,160	KKN44	Monrovia, Liberia	USA
	KRC81		USA
16,240	SNN48	Warsaw, Poland	Poland
16,333	SQR64	Accra, Ghana	Poland
16,387	KNY23	Washington, DC	Czechoslovakia
16,392	KNY26	Washington, DC	Hungary
16,403	HGX83	Accra, Ghana	Hungary
16,455	YMN	New Delhi, India	Turkey
	YMN2	London, England	"
	YMN3	Washington, DC	"
	YMN4	Copenhagen, Denmark	"
	YMN5	Karachi, Pakistan	"
	YMN12	Madrid, Spain	"
	YMN13	Kabul, Afghanistan	"
17,080		Moscow, USSR	
17,366	SPP51	Accra, Ghana	Poland
17,390	KKN39		USA
17,415	STL75	Bonn, G.F.R.	Sudan
17,419.5	YML12	Paris, France	Turkey
17,428.5	SAM	Stockholm, Sweden	Sweden
	SAM20	Athens, Greece	"
	SAM36	Budapest, Hungary	"
	SAM37	Bucharest, Romania	"
	SAM45	Ankara, Turkey	"
	SAM52	Beriut, Lebanon	"

Embassy Stations

kHz	Call	Location	Government
17,428.5	SAM52	Tel Aviv, Israel	Sweden
	SAM59	Hanoi, Vietnam	"
	SAM62	Peking, P.R.C.	"
	SAM70	Addis Ababa, Ethiopia	"
	SAM74	Nairobi, Kenya	"
17,430		Peking, P.R.C.	Vietnam
	SQX48		Poland
17,432	9GV318	Accra, Ghana	USA
17,444.5	OHU25	Peking, P.R.C.	Finland
17,576.5	OHU25	Peking, P.R.C.	Finland
17,603.5	OHU23	Tel Aviv, Israel	Finland
17,623	KWL90		USA
17,662	KKN50	Washington, DC	USA
17,685	9GV326	Accra, Ghana	USA
18,036.5	*(all 7R--- calls as on 10,720 kHz)*		Algeria
18,138		" "	Algeria
18,225	PLG3	Jakarta, Indonesia	Netherlands
18,250	KNY27	Washington, DC	Switzerland
18,306.5	KNY28	Washington, DC	Algeria
18,348	KKN44	Monrovia, Liberia	USA
	9GV308	Accra, Ghana	"
18,430	HGX39	New Delhi, India	Hungary
	KNY21	Washington, DC	Yugoslavia
	KNY23	"	Czechoslovakia
	KWN90	Nicosia, Cyprus	USA
18,469	KKN50	Washington, DC	USA
18,525	KGA60		USA
	KGA65		"
	KKN50	Washington, DC	"
18,620	STL45	Cairo, Egypt	Sudan
18,713	PWC1	The Hague, Netherlands	Netherlands
	PWC2	Jerusalem, Israel	"
	PWC3	Peking, P.R.C.	"
	PWC4	Jakarta, Indonesia	"
	PWC5	Cairo, Egypt	"
	PWC6	Jidda, Saudi Arabia	"
	PWC7	Damascus, Syria	"
18,762.5	OHU25	Peking, P.R.C.	Finland
18,809.5	SAM	Stockholm, Sweden	Sweden
	SAM55	Bangkok, Thailand	"
	SAM59	Hanoi, Vietnam	"
	SAM70	Addis Ababa, Ethiopia	"
	SAM74	Monrovia, Liberia	"
	SAM83	Santiago, Chile	"
18,847.5	OHU25	Peking, P.R.C.	Finland
18,972	KKN47	Washington, DC	USA
19,014.5	KNY24	Washington, DC	G.F.R.
19,458	KNY20	Washington, DC	Poland
	KNY23	"	Czechoslovakia
19,501.5	SAM	Stockholm, Sweden	Sweden
	SAM65	New Delhi, India	"
	SAM74	Monrovia, Liberia	"
19,535	9GV328	Accra, Ghana	USA
19,900	STL26	London, England	Sudan
20,011	KNY26	Washington, DC	Hungary
20,011.5	SAM	Stockholm, Sweden	Sweden
	SAM55	Bangkok, Thailand	"
	SAM57	Dacca, Bangladesh	"
	SAM59	Hanoi, Vietnam	"
	SAM60	Islamabad, Pakistan	"
	SAM74	Nairobi, Kenya	"
	SAM83	Santiago, Chile	"
20,070	STL26	London, England	Sudan
20,123	KLA24	La Paz, Bolivia	USA
	KKN44	Monrovia, Liberia	"

kHz	Call	Location	Government
20,125.5	OHU21	Paris, France	Finland
20,148	KKN44	Monrovia, Liberia	USA
20,177.5	OHU20	Helsinki, Finland	Finland
	OHU25	Peking, P.R.C.	"
20,265	OHU20	Helsinki, Finland	Finland
	OHU25	Peking, P.R.C.	"
20,365	KKN48		USA
20,720	KKN50	Washington, DC	USA
20,722	9KE722	Khartoum, Sudan	Kuwait
20,959.5	SAM	Stockholm, Sweden	Sweden
	SAM36	Budapest, Hungary	"
	SAM46	Baghdad, Iraq	"
	SAM47	Beirut, Lebanon	"
	SAM50	Cairo, Egypt	"
	SAM51	Tehran, Iran	"
	SAM52	Tel Aviv, Israel	"
	SAM55	Bangkok, Thailand	"
	SAM57	Dacca, Bangladesh	"
	SAM60	Islamabad, Pakistan	"
	SAM70	Addis Ababa, Ethiopia	"
	SAM71	Dar es Salaam, Tanzania	"
	SAM72	Kinshasa, Zaire	"
	SAM73	Lagos, Nigeria	"
	SAM74	Monrovia, Liberia	"
	SAM75	Nairobi, Kenya	"
20,986.5	*(all of the above plus the following)*		
	SAM45	Ankara, Turkey	Sweden
	SAM59	Hanoi, Vietnam	"
	SAM62	Peking, P.R.C.	"
	SAM83	Santiago, Chile	"
21,330	KKN44	Monrovia, Liberia	USA
21,773.5	KNY24	Washington, DC	G.F.R.
23,442.5	KGA61		USA
23,862.5	KKN51		USA
23,975	KGA68		USA
	KKN49		"
	KKN50	Washington, DC	"

4 United Nations

The communications network of the United Nations occupies a unique position in world affairs. On one hand, the system must provide high quality worldwide point-to-point CW and RTTY (plus a little SSB) communications, while simultaneously providing medium-range communications within a very changeable zone of responsibility. The list below attempts to combine both network functions. Although some stations may be off the air by the time this is in print, certain frequencies are used with great consistency and these channels would undoubtedly be used in any future crisis.

kHz	Callsign(s)	Location	Remarks
3202.5	4UEC	Cairo, Egypt	Arab/Israeli Dispute
	4UNA	Amman, Jordan	"
	4UNB	Beirut, Lebanon	"
	4UNC	Ismailia, Egypt	"
	4UND	Damascus, Syria	"
	4UNG	Gaza, Egypt	"
	4UNI	Ismailia, Egypt	"
	4UNK	El Kantara, Egypt	"
	4UNQ	Quneitra, Syria	"
	4UNT	Tiberias, Israel	"
3205.5	*(all of the above)*		"
3260	*(all of the above)*		"

kHz	Callsign(s)	Location	Remarks
3721.5	4UAD	New Delhi, India	India/Pakistan Dispute (SSB)
	(plus numerous SSB stations along border)		
	4UCB	Bukavu, Zaire	Burundi/Rwanda/Zaire border
	4UCG	Goma, Zaire	"
	4UN	Jerusalem, Israel	Arab/Israeli Dispute (CW/SSB)
	4UNA, 4UNB, 4UNC, 4UNI, 4UNK & 4UNT *(see 3202.5 kHz)*		
	(plus numerous SSB stations in Bangladesh)		
4032	4UEA	Arish, Egypt	Arab/Israeli Dispute
	4UEC	Cairo, Egypt	"
	4UEP	Port Said, Egypt	"
	4UEB	Beit Meri, Lebanon	"
4619	4UND, 4UNG & 4UNT		
4870	4UN, 4UNA, 4UNB, 4UNC, 4UND, 4UNQ & 4UNT *(see 3202.5 kHz)*		
	(plus numerous SSB stations in Zaire)		
4952.5	4UY34	New York, NY	UN Headquarters
	4UZ35	Geneva Switzerland	UN Specialized Agencies
5007	4UP	Karachi, Pakistan	
	4US	Nicosia, Cyprus	
	4UN, 4UNA, 4UNB, 4UNC, 4UND, 4UNG, 4UNI, 4UNK, 4UNQ and 4UNT *(see above for locations)*		
5065	4UE	Gaza, Egypt	Arab/Israeli Dispute
	4UEV	Tel Avis, Israel	"
	4UEA and 4UEP *(see above for locations)*		
5072.5	4UA	Rawalpindi, Pakistan	India/Pakistan Dispute (CW/SSB)
	4UAD	New Delhi, India	"
	4UNG, 4UNI & 4UNK *(see above for locations)*		
	(plus numerous SSB stations along India/Pakistan border)		
5123	4UY35	New York, NY	UN Headquarters
5752.5	4UA, 4UAD, 4UE & 4UP *(see above for locations)*		
5755	4UY45	New York, NY	UN Headquarters
	4UZ45	Geneva, Switzerland	UN Specialized Agencies
6879	4UY46	New York, NY	UN Headquarters
	4UZ46	Geneva, Switzerland	UN Specialized Agencies
7441.5	4UN	Jerusalem, Israel	SSB
7443	4UNA, 4UNB, 4UNC, 4UND, 4UNQ and 4UNT *(see above for locations)*		
7587	4UK	Seoul, S. Korea	North/South Korea Dispute
	4UAD, 4UAG, 4UEC, 4UNG, 4UNI & 4UNK *(see above locations)*		
	(plus numerous SSB stations along India/Pakistan border)		
7597	4UAD, 4UN & 4UP		*(see above for locations)*
7602.5	4UCB, 4UCG, 4UN, 4UNB, 4UNC, 4UND, 4UNG, 4UNI, 4UNK, 4UNQ and 4UNT *(see above for locations)*		
7607.5	4UT	Bangkok, Thailand	UN relay station
	4UZ	Geneva, Switzerland	UN Specialized Agencies
7734	4UD	Dacca, Bangladesh	
	4UEC, 4UND, 4UNQ & 4UNT *(see above for locations)*		
7808	4UY37	New York, NY	UN Headquarters
	4UZ	Geneva, Switzerland	UN Specialized Agencies
7887	4UY27	New York, NY	UN Headquarters (FSK)
	4UZ27	Geneva, Switzerland	UN Specialized Agencies (FSK)
7908	4UN	Jerusalem, Israel	(FSK)
	4UY47	New York, NY	UN Headquarters (FSK)
	4UZ47	Geneva, Switzerland	UN Specialized Agencies (FSK)
8064	4UEA, 4UEP, 4UEV, 4UN, 4UNC, 4UNG, 4UNI & 4UNK *(see above)*		
9122.5	4UP	Karachi, Pakistan	(CW/FSK)
	4UZ	Geneva, Switzerland	(CW/FSK)
9157	4UE	Gaza, Egypt	(CW/FSK)
	4UP	Karachi, Pakistan	"
	4US	Nicosia, Cyprus	"
	4UT	Bangkok, Thailand	"
	4UZ	Geneva, Switzerland	"
9845	4UC	Kinshasa, Zaire	(CW/FSK)
	4UN	Jerusalem, Israel	"
	4US	Nicosia, Cyprus	"
	4UY49	New York, NY	UN Headquarters (CW/FSK)
	4UZ49	Geneva, Switzerland	UN Specialized Agencies (CW/FSK)

kHz	Callsign(s)	Location	Remarks
9923	4UAD	New Delhi, India	(FSK)
	4UAS	Srinagar, ONC	"
	4UP	Karachi, Pakistan	"
10,145	4UZ	Geneva, Swizterland	UN Specialized Agencies (CW)
10,277.5	4UY30	New York, NY	UN Headquarters (FSK)
	4UZ30	Geneva, Switzerland	UN Specialized Agencies (FSK)
10,461	4UZ	Geneva, Switzerland	UN Specialized Agencies (FSK)
10,497.5	4UY40	New York, NY	UN Headquarters (FSK)
10,647	4UY20	New York, NY	UN Headquarters (FSK
	4UZ20	Geneva, Switzerland	UN Specialized Agencies (FSK)
10,663	4UZ50	Geneva, Switzerland	UN Specialized Agencies (FSK)
11,515	4UP	Karachi, Pakistan	(FSK)
12,030	4UP	Karachi, Pakistan	(CW)
	4UZ	Geneva, Switzerland	UN Specialized Agencies (FSK)
12,236	4UA	Rawalpindi, Pakistan	(CW)
	4UK	Seoul, S. Korea	"
	4UP	Karachi, Pakistant	"
	4US	Nicosia, Cyprus	"
	4UY22	New York, NY	UN Headquarters (FSK)
	4UZ22	Geneva, Switzerland	UN Specialized Agencies (CW/FSK)
13,999	4UC23	Kinshasa, Zaire	(FSK) to UN Headquarters
14,478	4UF	Addis Ababa, Ethiopia	(CW/FSK) to Jerusalem
	4UN	Jerusalem, Israel	(CW/FSK) to Addis Ababa
14,582	4UP	Karachi, Pakistan	(CW)
	4UZ	Geneva, Switzerland	UN Specialized Agencies (FSK)
14,642	4UE	Gaza, Egypt	(CW)
	4UY24	New York, NY	UN Headquarters (FSK)
	4UZ	Geneva, Switzerland	UN Specialized Agencies (FSK)
14,853	4UY54	New York, NY	UN Headquarters (FSK)
	4UZ54	Geneva, Switzerland	UN Specialized Agencies (FSK)
15,568	4UP	Karachi, Pakistan	(CW)
15,827	4UK	Seoul, S. Korea	(CW)
	4UN	Jerusalem, Israel	(FSK)
	4UT	Bangkok, Thailand	(CW/FSK)
15,992	4UE, 4UN, 4UP, 4US & 4UZ *(see above for locations)*		
	4UY25	New York, NY	UN Headquarters (FSK)
16,187.5	4UY36	New York, NY	UN Headquarters (FSK)
	4UZ	Geneva, Switzerland	UN Specialized Agencies (FSK)
16,232	4UE, 4UK, 4UP, 4US, 4UT & 4UZ		(CW/FSK)
	4UY26	New York, NY	UN Headquarters (FSK)
17,370	4UP	Karachi, Pakistan	(FSK)
17,520	4UE	Gaza, Egypt	(CW)
	4UN	Jerusalem, Israel	(CW)
	4UZ	Geneva, Switzerland	UN Specialized Agencies (CW)
17,565	4UK	Seoul, S. Korea	(CW)
	4UT	Bangkok, Thailand	(FSK)
	4UZ	Geneva, Switzerland	UN Specialized Agencies (CW)
19,280	4UF	Addis Ababa, Ethiopia	(FSK)
	4UP	Karachi, Pakistan	"
	4US	Nicosia, Cyprus	"
	4UZ	Geneva, Switzerland	UN Specialized Agencies (FSK)
	4UY29	New York, NY	UN Headquarters (FSK)
19,313	4UN	Jerusalem, Israel	(FSK) to Addis Ababa
19,730	4UE, 4UK, 4UN, 4UP, 4US & 4UZ *(see above for locations)*		(CW/FSK)
19,742	4UC69	Kinshasa, Zaire	(FSK)
	4UN	Jerusalem, Israel	"
19,870	4UE, 4UK, 4UP & 4UT *(see above for locations)*		
19,879.5	4US	Nicosia, Cyprus	(FSK)
19,922.5	4UY39	New York, NY	UN Headquarters (FSK)
	4UZ39	Geneva, Switzerland	UN Specialized Agencies (FSK)
20,070	4UY50	New York, NY	UN Headquarters, (FSK) to Kinshasa
	4UZ	Geneva, Switzerland	UN Specialized Agencies (FSK)
22,750	4UP	Karachi, Pakistan	(FSK)
23,680	4UK, 4UP & 4UT *(see above for locations)*		
23,690	4UP & 4UT *(see above for locations)*		

5 Coast Stations

The International Telecommunications Union defines a "Coast Station" as a land station in the maritime service. This is a broad category since Coast Stations can be involved in many activities—ranging from personal telegram transmissions to weather reports, or from medical advice to fuel consumption reports. In this issue of "CFL", the Coast Stations using AM/SSB voice are separate from those using CW and AMVER separate from MEDICO or Ice Patrol. This particular list is not intended to include every active Coast Station, but only those that have been heard during 1975. Most of the stations—when monitored—were transmitting V-markers, QRA tapes, or traffic lists; all were using moderately fast CW. The power column was derived from figures supplied by the ITU. The asterisk after the callsign indicates that the ITU does not have a record of that particular station using the frequency listed.

kHz	Call	Location	Power (kW)
6348	KFS	San Francisco Radio (CA)	10
6351.5	VAI	Vancouver Radio (BC)	5
	YVG	La Guaira Radio, Venezuela	0.3
6365.5	KFS	San Francisco Radio (CA)	10
6369	PPA25	Amaralina Radio, Brazil	
	GKA3	Portishead Radio, England	10
6376	VPN	Bahamas Radio, Nassau	0.5
	WCC	Chatham Radio (MA)	5
6377.75	EBA/K	Las Palmas Radio, Spain	
6379.5	8PO	Barbados Radio, Barbados	1
	GKB3	Portishead Radio, England	10
6383	6VA4	Dakar Radio, Senegal	4
	EAD2	Aranjuez Radio, Spain	15
6386.5	HKC2	Buenaventura Radio, Colombia	0.5
6389.65	UJY*	Kaliningrad Radio, USSR	
6389.65	WAX	Ojus Radio (FL) has been closed down	
6393.5	ZLB*	Awarua Radio, New Zealand	5
	CUG33	San Miguel Radio, Azores	2.5
	CUB29	Madeira Radio, Madeira	2.5
6400.5	EDZ2	Vallecas Radio, Spain	10
6402	GKS3	Portishead Radio, England	
6404	PCH96	Scheveningen Radio, Holland	3
6407.5	VIO	Broome Radio, Australia	0.5
6409.5	IAR6	Rome P.T. Radio, Italy	5
6410.65	KLB	Seattle Radio (WA)	3.5
6411	OST3	Oostende Radio, Belgium	10
6411.35	WOE	Lantana Radio (FL)	3
6414	XSG	Shanghai Radio, P.R.C.	2
6417	DZG	Las Pinas Radio, Philippines	2
6418	IQX	Trieste P.T. Radio, Italy	2
6419	SVC*	Athens Radio, Greece	
6421.5	FFL3	St. Lys Radio, France	5
6432	LGU	Rogaland Radio, Norway	5
6435	CLQ	Havana Radio, Cuba	5
6435.5	WPA	Port Arthur Radio (TX)	3
6439	OXZ31	Lyngby Radio, Denmark	10
6442.5	XFL2	Mazatlan Radio, Mexico	1
6446	WLO	Mobile Radio (AL)	1
6446.75	OXZ3	Lyngby Radio, Denmark	10
6456.5	DAL	Norddeich Radio, G.F.R.	
6463.5	KOK	Los Angeles Radio (CA)	7.5
	VIS	Sydney Radio, Australia	0.4
	VIT	Townsville Radio, Australia	0.1
6467	JCS	Choshi Radio, Japan	3
	ZSC36	Capetown Radio, South Africa	10
6468	VIS3	Sydney Radio, Australia	0.4
	SAG*	Göteborg Radio, Sweden	5
6470	JCX	Naha Radio, Okinawa	1
6470.5	4XO	Haifa Radio, Israel	2.5
	6YI	Kingston Radio, Jamaica	1
	9YL	North Post Radio, Trinidad	1
6475.5	DAM	Norddeich Radio, G.F.R.	
6477.5	KPH	San Francisco Radio (CA	3
6478	CLQ*	Havana Radio, Cuba	5

kHz	Call	Location	Power (kW)
6485	JCU	Choshi Radio, Japan	3
	UAH*	Tallinn Radio, USSR	5
6487.5	VRT	Bermuda Radio	1
6488	XXU27	S. Vicente de Cape Verde Radio	3
6488.5	KPH	San Francisco Radio (CA)	10
6491.5	VCS	Halifax Radio, Canada	1
	JOS	Nagasaki Radio, Japan	3
	PJC	Curacao Radio, N. Antilles	1
6496.75	OST32	Oostende Radio, Belgium	
6502	VII	Thursday Island Radio, Australia	
6505.2	CLA5	Havana Radio, Cuba	5
6509	9VG9	Singapore Radio	3
6512.5	SVA3	Athens Radio, Greece	
	TFA6	Reykjavik Radio, Iceland	1.5
8461	CUB	Madeira Radio	1
	YVG	La Guaira Radio, Venezuela	.3
	UPD*	Kharauz Radio, USSR	
8464	VNP	Haiphong Radio, Vietnam	
8465	6YI	Kingston Radio, Jamaica	1
	UFW*	Vladivostok Radio, USSR	
	JOC*	Sapporo Radio, Japan	
8469	CUG	San Miguel Radio, Azores	2.5
	CUL8	Lisbon Radio, Portugal	5
8476	9VG56	Singapore Radio	5
	ESF*	Tallinn Radio, USSR	
8478	TIM	Limon Radio, Costa Rica	3
8479	JCU	Choshi Radio, Japan	10
8482	SPA4	Gdynia Radio, Poland	10
8483.5	DAN	Norddeich Radio, G.F.R.	
8486	WOE	Lantana Radio (FL)	3
8490	CUL7	Lisbon Radio, Portugal	5
8492.5	PPA45*	Amaralina Radio, Brazil	0.5
8496.5	GKS4	Portishead Radio, England	
8498	SAG4	Göteborg Radio, Sweden	5
8502	PPS	Santos Radio, Brazil	2
	XSG	Shanghai Radio, P.R.C.	2
	ZSC	Capetown Radio, South Africa	
8504	ZLB4	Awarua Radio, New Zealand	5
8511.9	DAL	Norddeich Radio, G.F.R.	
8514	XSQ	Kwangchow Radio, P.R.C.	2
8521	VIS	Sydney Radio, Australia	10
8522.5	FFL4	St. Lys Radio, France	10
8523.5	JOR	Nagasaki Radio, Japan	10
8525	9KK6	Kuwait Radio	5
	WAX	Ojus Radio (FL) has been closed down	
8537	SVD4	Athens Radio, Greece	
8539	VPS35	Hong Kong Radio	3
8542	PKI	Jakarta Radio, Indonesia	1
8547.5	JFA	Chuo Gyogyo Radio, Japan	3
8550	FFT4	St. Lys Radio, France	10
	WPA	Port Arthur Radio (TX)	3
8556	DZJ7*	Manila Radio, Philippines	
	SAG	Göteborg Radio, Sweden	5
8557	SPE4	Szczecin Radio, Poland	10
8557.9	GKB4	Portishead Radio, England	
8558.4	KFS	San Francisco Radio (CA)	20
8562	PCH2	Scheveningen Radio, Holland	3
8566	VPC8	Falkland Islands Radio	3
8568	DZR	Manila Radio, Philippines	5
8568.5	XFM	Manzanillo Radio, Mexico	0.5
8570	WNU	Slidell Radio (LA)	2
8573	CLA21	Havana Radio, Cuba	5
8574	HKC2	Buenaventura Radio, Colombia	0.5
8576.5	ZSD45	Durban Radio, South Africa	3.5
8582	XSW	Kaohsiung Radio, Taiwan	1
	KLB	Seattle Radio (WA)	3.5
8584	DZN5	Navotas Radio, Philippines	3

kHz	Call	Location	Power (kW)
8584	DZO*	San Jose Radio, Philippines	0.1
8586	WCC	Chatham Radio (MA)	10
8588	DZG	Las Pinas Radio, Philippines	5
8597.5	VIP	Perth Radio., Australia	1
8598	OXZ4	Lyngby Radio, Denmark	10
8600	YUZ8*	Rijeka Radio, Yugoslavia	
8606	GKI4	Portishead Radio, England	
8607	LZW4	Varna Radio, Bulgaria	5
8607.5	DZK*	Caloocan Radio, Philippines	0.3
8610	UGE	Arkhangel'sk Radio, USSR	5
8619	VRN35	Cape d'Aguilar Radio, Hong Kong	3
	EAD	Aranjuez Radio, Spain	
8625	DZV*	Manila Radio, Philippines	
8634	SPH2	Gydnia Radio, Poland	10
8638.5	DAM	Norddeich Radio, G.F.R.	
8642	XXV25	Luanda Radio, Angola	3
	HIA	Santo Domingo Radio. Dom. Rep.	0.5
8646	LPD86	Gen. Pacheco Radio, Argentina	3
8646	OSA*	Antwerp Radio, Belgium	
8649.5	ICB	Genoa P.T. Radio, Italy	2.5
8652	OST42	Oostende Radio Belgium	
8653.6	JCS12	Choshi Radio, Japan	3
8658	UJQ*	Kiev Radio, USSR	
	WSL	Amagansett Radio, (NY)	20
8661	DZJ*	Manila Radio, Philippines	
8662.5	PZN3	Paramaribo Radio, Surinam	1
8666	HKB	Barranquilla Radio, Colombia	2.5
	KLC	Galveston Radio (TX)	3.75
8670	IAR	Rome P.T. Radio, Italy	10
	XSW*	Kaohsiung Radio, Taiwan	
8672.5	DAF	Norddeich Radio, G.F.R.	
8674.4	VWM	Madras Radio, India	2.5
8675.2	FFP3	Fort de France Radio, Martinique	1
8679	IQX	Trieste P.T. Radio, Italy	6
8682	TXZ8	Djibouti Radio, Afars & Issas	1
	EAD	Aranjuez Radio, Spain	
8686	PKF	Makassar Radio, Indonesia	1
	CNP	Casablanca Radio, Morocco	1
8688	URD*	Leningrad Radio, USSR	
8690	CLQ	Havana Radio, Cuba	5
	3DP3	Suva Radio, Fiji	0.3
	SVA4	Athens Radio, Greece	
	TFA8	Reykjavik Radio, Iceland	1.5
	6VA5	Dakar Radio, Senegal	4
8690.5	UMV*	Murmansk Radio, USSR	
8694	PJC	Curacao Radio, Netherlands Ant.	1
	PNK	Jajapura Radio, Indonesia	1
	4XO	Haifa Radio, Israel	2.5
8698	FJP8	Noumea Radio, New Caledonia	1
	9MG2	Penang Radio, Malaysia	1
8700	YUR3	Rijeka Radio, Yugoslavia	6
8702	CLA22	Havana Radio, Cuba	5
8704	SVA4	Athens Radio, Greece	
8705	YVG*	La Guaira Radio, Venezuela	
8706	JOS	Nagasaki Radio, Japan	3
8709	VCS	Halifax Radio, Canada	1
8710	VPN	Nassau Radio, Bahamas	0.5
	XYR7	Rangoon Radio, Burma	1
	XSJ*	Tsamkong Radio, P.R.C.	2
	C5G	Banjul Radio, Gambia	1
8710.4	A9M	Bahrain Radio	2
	5ZF2	Mombasa Radio, Kenya	1.5
	7OA	Hiswa Radio, P.D.R. Yemen	1
8712	DHS	Rügen Radio, G.D.R.	
8713.7	KFS	San Francisco Radio (CA)	20
8714	XSV*	Tientsin Radio, P.R.C.	2
	XSX	Keelung Radio, P.R.C.	5
	WLO	Mobile Radio (AL)	1

kHz	Call	Location	Power (kW)
8714	YUR4	Rijeka Radio, Yugoslavia	6
8718	9VG20	Singapore Radio	5
8718.3	8PO	Barbados Radio	1
8718.4	VRT	Bermuda Radio	1
8721	VIS	Sydney Radio, Australia	10
	XSG4	Shanghai Radio, P.R.C.	15
8722	WLO	Mobile Radio (AL)	1
	VAI	Vancouver Radio, Canada	5
8726	LSA4	Boca Radio, Argentina	0.5
	OFJ2	Helsinki Radio, Finland	3
8742	9GA	Takoradi Radio, Ghana	5
8744.8	SAG	Göteborg Radio, Sweden	5
8783.1	UXN	Arkhangel'sk Radio, USSR	
12,695	URD*	Leningrad Radio, USSR	
12,695.5	KFS	San Francisco Radio (CA)	30
12,703	UNM2*	Klaipeda Radio, USSR	
12,704.5	WLO	Mobile Radio (AL)	1
12,709	LSA5*	Boca Radio, Argentina	
	A9M	Bahrain Radio	2
	8PO	Barbados Radio	1
	8RB	Demerara Radio, Guyana	1
	FJP23	Noumea Radio, New Caledonia	
	GKR3	Wick Radio, Scotland	0.25
12,709.2	VRT	Bermuda Radio	1
	9HD	Malta Radio	2
12,712	HLM	Mogpo Radio, S. Korea	3
12,714	CBV*	Valparaiso Radio, Chile	
	UXN*	Arkhangel'sk Radio, USSR	
12,720	PKD*	Surabaja Radio, Indonesia	
12,722.5	XFL*	Mazatlán Radio, Mexico	
12,727.5	LGJ	Rogaland Radio, Norway	5
12,728	TXZ9	Djibouti Radio, Afars & Issas	1
12,729	UMV*	Murmansk Radio, USSR	
12,730	GZO*	Cape d'Aguilar Radio, Hong Kong	
12,732	UBN	Jdanov Donestskoj Radio, USSR	5
12,736	UGK*	Kaliningrad Radio, USSR	
12,736.5	TAH	Istanbul Radio, Turkey	3
12,738	PPA25*	Amaralina Radio, Brazil	2
12,740	ZLB5	Awarua Radio, New Zealand	5
12,750	CWA	Cerrito Radio, Uruguay	5
12,757	YQI2	Constanta Radio, Romania	1
12,763.5	DAM	Norddeich Radio, G.F.R.	
12,772.5	ZSC38	Capetown Radio, South Africa	10
12,778.5	XFL*	Mazatlán Radio, Mexico	
12,780.5	YUR	Rijeka Radio, Yugoslavia	6
12,781.5	HKB	Barranquilla Radio, Colombia	2.5
12,790	XFL2	Mazatlán Radio, Mexico	
12,799.5	PCH6	Scheveningen Radio, Holland	10
12,811.3	HZY	Ras Tanura Radio, Saudi Arabia	3
12,822	XSV	Tientsin Radio, P.R.C.	2
12,826.5	WNU	Slidell Radio (LA)	2
12,829.5	XFM	Manzanillo Radio, Mexico	0.5
12,831	FFP7	Fort de France Radio, Martinique	1
12,838.5	PPO*	Olinda Radio, Brazil	
12,839	WPA	Port Arthur Radio (TX)	3
12,843	HLC*	Inchon Radio, S. Korea	
12,844	XFL*	Mazatlán Radio, Mexico	
12,844.5	KFS	San Francisco Radio (CA)	30
12,847.5	JFA	Chuo Gyogyo Radio, Japan	3
12,849	VPC12	Falkland Islands Radio	3
12,852	DZR	Manila Radio, Philippines	5
12,853.5	HKC	Buenaventura Radio, Colombia	0.5
12,856	XSG7	Shanghai Radio, P.R.C.	3
12,858	GKI	Portishead Radio, England	
12,871.5	XSG	Shanghai Radio, P.R.C.	10
12,874	VCS	Halifax Radio, Canada	1
12,876	VAI	Vancouver Radio, Canada	5

kHz	Call	Location	Power (kW)
12,876	LFJ	Rogaland Radio, Norway	5
12,877	XSQ7	Kwangchow Radio, P.R.C.	2
12,878	CLQ	Havana Radio, Cuba	5
	JCU	Choshi Radio, Japan	15
12,880.5	SAG6	Göteborg Radio, Sweden	5
12,882	DZG*	Manila Radio, Philippines	
12,885	9YL	North Post Radio, Trinidad	1
12,887.5	EAD44	Aranjuez Radio, Spain	
12,891	XSQ*	Kwangchow Radio, P.R.C.	
12,895	9KK8	Kuwait Radio	5
	DZO*	San Jose Radio, Philippines	
12,898.5	DAN	Norddeich Radio, G.F.R.	
12,907.5	KLB	Seattle Radio (WA)	3.5
	YUR	Rijeka Radio, Yugoslavia	6
12,910.5	UAT*	Moscow Radio, USSR	
	UFA*	Batumi Radio, USSR	
	UHK*	Arkhangel'sk Radio, USSR	
12,912.6	FFL6	St. Lys Radio, France	10
12,916.5	OXZ6	Lyngby Radio, Denmark	10
	HLP	Pusan Radio, S. Korea	5
12,923	HLM	Mogpo Radio, S. Korea	3
12,925.5	WCC	Chatham Radio (MA)	15
12,934.5	EDZ5	Aranjuez Radio, Spain	
12,939	SPE6	Szczecin Radio, Poland	10
12,940	LZW5	Varna Radio, Bulgaria	5
12,943.5	CUG	San Miguel Radio, Azores	1
12,947.5	ZPH*	Hernandarias Radio, Paraguay	0.6
12,948	WSC	Tuckerton Radio (NJ)	30
12,950	UFB*	Odessa Radio, USSR	10
12,952.5	VIS5	Sydney Radio, Australia	3.5
12,952.9	WMH	Baltimore Radio (MD)	0.75
12,961.5	LFI	Rogaland Radio, Norway	5
12,966	PCH8	Scheveningen Radio, Holland	30
12,969	XSV	Tientsin Radio, P.R.C.	2
12,970.5	SUH4	Alexandria Radio, Egypt	3.5
	WOE	Lantana Radio (FL)	3
12,975	IQX	Trieste P.T. Radio, Italy	6
12,978	ICB	Genoa P.T. Radio, Italy	5
12,979	PPL*	Salinopolis Radio, Brazil	
12,988.5	LPD88	Gen. Pacheco Radio, Argentina	15
12,993	VIP	Perth Radio, Australia	1
	KOK	Los Angeles Radio (CA)	15
12,996	IAR33	Rome P.T. Radio, Italy	10
12,997.5	WSL	Amagansett Radio, NY	30
13,001	UAH*	Tallinn Radio, USSR	
13,002	KPH	San Francisco Radio (CA)	15
13,008	JOR	Nagasaki Radio, Japan	10
13,011	WAX	Ojus Radio (FL) has been closed down	
13,020	GKC5	Portishead Radio, England	
	VPS60	Cape d'Aguilar Radio, Hong Kong	3
13,023.7	HEB	Berne Radio, Switzerland	7
13,024.9	WSL	Amagansett Radio, NY	30
13,027.5	DAL	Norddeich Radio, G.F.R.	
13,028	ZSD46	Durban Radio, South Africa	3.5
13,029	SVA5	Athens Radio, Greece	
	KHK	Honolulu Radio (HI)	1
13,031	VRN60	Cape d'Aguilar Radio, Hong Kong	3
13,033.5	WCC	Chatham Radio (MA)	15
13,038	KLC	Galveston Radio (TX)	3
13,042.5	PJC	Curacao Radio, N. Antilles	1
13,045	ROT2*	Moscow Radio, USSR	
13,046	PZN4	Paramaribo Radio, Surinam	1
13,051.5	4XO	Haifa Radio, Israel	2.5
	WPD	Tampa Radio (FL)	2.5
13,054	JDC	Choshi Radio, Japan	
13,060.5	TUA5	Abidjan Radio, Ivory Coast	4
13,062	CLA32	Havana Radio, Cuba	5
13,063	JDB	Nagasaki Radio, Japan	15

kHz	Call	Location	Power (kW)
13,065.5	EAD*	Aranjuez Radio, Spain	
13,067	OST52	Oostende Radio, Belgium	
13,069.5	TFA13	Reykjavik Radio, Iceland	1.5
	EQZ*	Abadan Radio, Iran	0.5
	JOS	Nagasaki Radio, Japan	3
	UDH*	Riga Radio, USSR	5
13,073.5	FFT6	St. Lys Radio, France	
13,078	LZW5	Varna Radio, Bulgaria	5
	9VG37	Singapore Radio	5
13,078.5	WSC	Amagansett Radio (NY)	30
13,080	UMV	Murmansk Radio, USSR	10
13,086	JCX	Naha Radio, Okinawa	1
13,087.5	HKC*	Buenaventura Radio, Colombia	
	OFJ3	Helsinki Radio, Finland	
13,090	UDH	Riga Radio, USSR	5
13,092	EAT4	Tenerife Radio, Canary Islands	1
	CLA33	Havana Radio, Cuba	5
	ETC2	Asmara Radio, Ethiopia	5
	JOU	Nagasaki Radio, Japan	10
13,096.5	FFS6	St. Lys Radio, France	10
13,096.5	9MG3	Penang Radio, Malaysia	1
13,100	TIM	Limon Radio, Costa Rica	
	DHS	Rügen Radio, G.D.R.	3
13,101	ODR	Beirut Radio, Lebanon	1
13,105.5	PPR	Rio de Janeiro Radio, Brazil	0.5
16,947.6	VRT	Bermuda Radio	1
16,948.9	YLZ*	Ventspils Radio, USSR	
16,953.6	XSJ*	Tsamkong Radio, P.R.C.	2
16,959.2	JOU	Nagasaki Radio, Japan	5
	CUL22	Lisbon Radio, Portugal	5
16,961	CLA40	Havana Radio, Cuba	5
16,968	9VG58	Singapore Radio	5
16,973.6	WCC	Chatham Radio (MA)	13
16,978.4	KHK	Honolulu Radio (HI)	1
16,980	URD*	Leningrad Radio, USSR	
16,984	PPA25*	Amaralina Radio, Brazil	
16,997.6	WSL	Amagansett Radio (NY)	30
17,002.4	HKB	Barranquilla Radio, Colombia	2.5
17,007.5	KLB	Seattle Radio (WA)	3.75
17,016.5	KPH	San Francisco Radio (CA)	15
17,026	KFS	San Francisco Radio (CA)	30
17,027	FFL8	St. Lys Radio, France	10
17,040.8	FFS8	St. Lys Radio, France	10
17,043.2	JCU	Choshi Radio, Japan	15
17,045.6	LPD46	Gen. Pacheco Radio, Argentina	15
17,062	UFB*	Odessa Radio, USSR	
17,064.8	KOK	Los Angeles Radio (CA)	15
17,068.4	OXZ8	Lyngby Radio, Denmark	10
17,084	IQX	Trieste P.T. Radio, Italy	6
17,088.8	KPH	San Francisco Radio (CA)	15
17,096	VPS80	Cape d'Aguilar Radio, Hong Kong	2.5
17,100	UFN	Novorossiisk Radio, USSR	5
17,103.2	PCH93	Scheveningen Radio, Holland	10
17,117.6	WMU	Sliddell Radio (LA)	3
17,132	XSV	Tientsin Radio, P.R.C.	3
17,141.6	YVG	La Guaira Radio, Venezuela	0.3
17,175.2	VAI	Vancouver Radio, Canada	5
	7OA	Aden Radio, P.D.R. Yemen	1
17,172	ZLB*	Awarua Radio, New Zealand	
17,177.6	DAL	Norddeich Radio, G.F.R.	
17,194.4	SVA6	Athens Radio, Greece	3.5
17,199.2	PKB	Belawan Radio, Indonesia	1
	WAX	Ojus Radio (FL) has been closed down	
17,208.8	CWA	Cerrito Radio, Uruguay	1
	KLC	Galveston Radio (TX)	3.75
17,215	JDB	Nagasaki Radio, Japan	15
17,218.5	ICB	Genoa P.T. Radio, Italy	5

kHz	Call	Location	Power (kW)
22,396	CLA50	Havana Radio, Cuba	5
22,413	SAG9	Göteborg Radio, Sweden	5
22,419	LPD91	Gen. Pacheco Radio, Argentina	15
22,440	JOU	Nagasaki Radio, Japan	15
22,479	PPA25*	Amaralina Radio, Brazil	
	CUL24	Lisbon Radio, Portugal	5
	9VG27	Singapore Radio	5
22,565	VIP6	Perth Radio, Australia	10
22,569	FFS9	St. Lys Radio, France	10
22,575	PCH98	Scheveningen Radio, Holland	10
22,598	ZSC20	Capetown Radio, South Africa	10

6 Antarctica

Certain scientists are quick to point to the studies being made on the Antarctic continent as a prime example of useful international cooperation. Although no one nation has staked a claim to the Antarctica, there appears to be a tacit understanding about the nationality of certain outposts and bases. As this list was being prepared, about a half dozen countries were maintaining bases on the continent. The frequencies shown below are those recognized by the ITU (except for the USSR calls and frequencies) and which have been operational within the past two years. Traffic is about 50% RTTY with the remainder split between CW and SSB.

kHz	Call	Location	Representing
4012.5	NGD	McMurdo Station	USA
4040	VJM	MacQuarie Island	Australia
	VLV	Mawson Base	"
	VLZ	Davis Base	"
4540	JGX	Syowa Base	Japan
4610	RUZU	Molodezhnaya Base	USSR
		Vostok Station	"
5100	RUZU	Molodezhnaya Base	USSR
		Vostok Station	"
5400	ZLQ4	Scott Base	New Zealand
5785	ZLQ5	Scott Base	New Zealand
5835	VJM	MacQuarie Island	Australia
	VLV	Mawson Base	"
	VLZ	Davis Base	"
	VNJ	Casey Base	"
5867.5	NGD	McMurdo Station	USA
5940	JGX	Syowa Base	Japan
5947	JGX	Syowa Base	Japan
6283	RUZU	Molodezhnaya Base	USSR
6780	ZRP	Sanae Base	Rep. South Africa
6850	VLV	Mawson Base	Australia
	VLZ	Davis Base	"
	VNJ	Casey Base	"
7430	FJY3	Dumont d'Urville	France
	VJM	MacQuarie Island	Australia
7435	RUZU	Molodezhnaya Base	USSR
7623	VSD	Halley Bay	England
7669.5	NGD	McMurdo Station	USA
7750	ORV27	Roi Baudouin Base	Belgium
7771	JGX	Syowa Base	Japan
7922.5	VLV	Mawson Base	Australia
	VLZ	Davis Base	"
	VJM	MacQuarie Island	"
	VNJ	Casey Base	"
8150	ZHF88	P. Stanley, Falkland Is.	England
8186	JGX	Syowa Base	Japan
8330	UFE	Mirnyy Base	USSR
		Vostok Station	"
8938		aircraft	Australia
8997		aircraft	USA
9100	ZHF88	P. Stanley, Falkland Is.	England
9268	FJY3	Dumont d'Urville	France

kHz	Call	Location	Representing
9272	ORV29	Roi Baudouin Base	Belgium
9280	RUZU	Molodezhnaya Base	USSR
	UFE	Mirnyy Base	"
		Vostok Station	"
9435	ZLQ29	Scott Base	New Zealand
9786.5	ZLQ34	Scott Base	New Zealand
9788	FJY3	Dumont d'Urville	France
9830	NGD	McMurdo Station	USA
9843	ZRP	Sanae Base	Rep. South Africa
9889.5	NGD	McMurdo Station	USA
9940	VJM	MacQuarie Island	Australia
	VLV	Mawson Base	"
	VLZ	Davis Base	"
	VNM	Melbourne, Australia	"
10,113	FJY3	Dumont d'Urville	France
10,254	ORV20	Roi Baudouin Base	Belgium
10,550	ZLQ25	Scott Base	New Zealand
10,649	ORV30	Roi Baudouin Base	Belgium
10,688	ZLQ26	Scott Base	New Zealand
10,830	RUZU	Molodezhnaya Base	USSR
	UFE	Mirnyy Base	"
		Vostok Station	"
10,865	NGD	McMurdo Station	USA
11,255	NPX	South Pole Station	USA
11,552	NGD	McMurdo Station	USA
11,570	ZLQ24	Scott Base	New Zealand
11,575	FJY3	Dumont d'Urville	France
12,152	ORV32	Roi Baudouin Base	Belgium
12,215	VLV	Mawson Base	Australia
	VNJ	Casey Base	"
12,225	NGD	McMurdo Station	USA
12,255	VJM	MacQuarie Island	Australia
	VLV	Mawson Base	"
	VLZ	Davis Base	"
	VNJ	Casey Base	"
	VNM	Melbourne, Australia	"
12,300	ZHF88	P. Stanley, Falkland Is.	England
12,442	ZRP	Sanae Base	Rep. South Africa
12,530	VSD	Halley Base	England
13,251		aircraft	USA
13,590	NGD	McMurdo Station	USA
14,415	VJM	MacQuarie Island	Australia
	VLV	Mawson Base	"
	VLZ	Davis Base	"
	VNJ	Casey Base	"
	VNM	Melbourne, Australia	"
14,440	FQF3	Kerguelen Islands	France
14,495	ZRP	Sanae Base	Rep. South Africa
14,558	RUZU	Molodezhnaya Base	USSR
	UFE	Mirnyy Base	"
		Vostok Station	"
14,580	ZLQ27	Scott Base	New Zealand
14,670	FJY3	Dumont d'Urville	France
14,940	FJY3	Dumont d'Urville	France
15,830	RUZU	Molodezhnaya Base	USSR
	UFE	Mirnyy Base	"
		Vostok Station	"
15,845	VJM	MacQuarie Island	Australia
	VLV	Mawson Base	"
	VLZ	Davis Base	"
	VNJ	Casey Base	"
	VNM	Melbourne, Australia	"
16,402	ZRP	Sanae Base	Rep. South Africa
17,480	VLV	Mawson Base	Australia
	VNJ	Casey Base	"
	VNM	Melbourne, Australia	"
18,505	JGX	Syowa Base	Japan
19,250	ZLQ9	Scott Base	New Zealand

kHz	Call	Location	Representing
20,265	JGX	Syowa Base	Japan
20,975	ORV50	Roi Baudouin Base	Belgium

7 Foreign Military

In the interest of nationalistic security, military radio stations attempt to conceal their identity—some more than others. Many military stations use sophisticated communication techniques (secure RTTY, bursts, etc.) and the number of CW or SSB stations is declining—year by year. This list includes a variety of CW or SSB signals reported by our monitors in Australia, Europe or North America, partially verified by information obtained from the files of the ITU.

kHz	Call	Location	Service	Nationality
4295	FUF	Fort de France, Martinque	Navy	France
4301	GYC2	London, England	Navy	England
4307	GYB2	London, England	Navy	England
	CKN	Vancouver, Canada	Navy	Canada
4335	GYS	Singapore	Navy	England
4346.5	ZRQ3	Simonstown, South Africa	Navy	South Africa
4562.5	JWT	Stavanger, Norway	Navy	Norway
4615	MLU	Gibraltar	Air Force	England
4703.5	CHR	Trenton, Canada	Air Force	Canada
	VXA	Edmonton, Canada	" "	"
4742	MQP	Upavon, England	Air Force	England
4745.5	CFH	Halifax, Canada	Air Force	Canada
5015	CTV25	Monsanto, Portugal	Navy	Portugal
5365	PEI6	Scheveningen, Holland	Navy	Holland
5689.5		Lahr, G.F.R.	Air Force	Canada
5695.5	GFO	Plymouth, England	Air Force	England
5743	MLF	Luga, Malta	Air Force	England
5755	AXI32	Darwin, Australia	Air Force	Australia
5809	JWT	Stavanger, Norway	Navy	Norway
6300			Navy	USSR
6344			Navy	USSR
6351.5	GZC3	Mauritius	Navy	England
6358.5	PBC3	Goeree, Holland	Navy	Holland
6362	GYA3	London, England	Navy	England
	FUX	Bizerte, Tunisia	Navy	France
6372.5	GYU	Gibraltar	Navy	England
6386.5	CFH	Halifax, Canada	Navy	Canada
	GYA	London, England	Navy	England
	ZSJ3	Commcen Cape, S. Africa	Navy	South Africa
	GZC	Mauritius	Navy	England
6390.3	IDQ	Rome, Italy	Navy	Italy
6393.5	GZO3	Hong Kong	Navy	England
	GXO3	Mauritius	Navy	"
6395	TCA21	Ankara, Turkey	Navy	Turkey
6407.5	MHU3	London, England	Air Force	England
6417	FUE	Brest, France	Navy	France
	FUM	Papeete, Tahiti	"	"
	FUO	Toulon, France	"	"
6418	VTP5	Vizagapatam, India	Navy	India
6428.5	VIX3	Belconnen, Australia	Navy	Australia
6435.5	GLP20	London, England	Navy	England
	ZLP	Irirangi, New Zealand	Navy	New Zealand
6445.2	CKN	Vancouver, Canada	Navy	Canada
6449.5	CFH	Halifax, Canada	Navy	Canada
6481	GYZ3	Malta	Navy	England
	GYS3	Singapore	Navy	England
6481.5	CCS	Santiago, Chile	Navy	Chile
6495	ZRH22	Simontown, South Africa	Navy	South Africa
6509	XXU26	Mindelo, Cape Verde	Navy	Portugal
6512	GZV	Mauritius	Navy	England
6608			Navy	USSR
6685	CHR	Trenton, Canada	Air Force	Canada
6694.5	B4A		Army	Egypt

kHz	Call	Location	Service	Nationality
6694.5	CZW	Halifax, Canada	Air Force	Canada
	CHR	Trenton, Canada	" "	"
	CJX	St. Johns, NFLD, Canada	" "	"
6705	VXA	Edmonton, Canada	Air Force	Canada
	CFH	Halifax, Canada	" "	"
6723	IDR	Rome, Italy	Navy	Italy
6727	MQY	Pitreavie, Scotland	Air Force	England
6729.5			Air Force	Denmark
6748			Navy	USSR
6753			Air Force	Canada
6971	PBC92	Goeree, Holland	Navy	Holland
6980	CCS	Santiago, Chile	Navy	Chile
7302	IDR3	Rome, Italy	Navy	Italy
7351	CTD41	Horta, Azores	Navy	Portugal
7410			Air Force	France
7535			Air Force	Australia
7988	JWT	Stavanger, Norway	Navy	Norway
8000			Navy	France
8126	MPU	Luga, Malta	Air Force	England
8148	OVG8	Frederikshavn, Denmark	Navy	Denmark
8404			Navy	USSR
8470	ZRQ	Simonstown, South Africa	Navy	South Africa
8478	VIX4	Belconnen, Australia	Navy	Australia
8510	CCM	Punta, Chile	Navy	Chile
8534		Hong Kong	Navy	England
8540	PJK3	Suffisant, Curacao	Navy	Holland
8554	FUF	Fort de France, Martinque	Navy	France
	FUX	St. Denis, Reunion	"	"
8566	GYU4	Gibraltar	Navy	England
	GYO19	Mauritius	"	"
	GYX4	Malta	"	"
	VTF4	Cochin, India	Navy	India
	ZSJ4	Commcen Cape, S. Africa	Navy	South Africa
8582	ZRH4	Simonstown, South Africa	Navy	South Africa
8588	CCV6	Valparaiso, Chile	Navy	Chile
8603	CCS	Santiago, Chile	Navy	Chile
8614	CKN	Vancouver, Canada	Navy	Canada
8630	GYS	Singapore	Navy	England
8638	VTG6	Bombay, India	Navy	India
8639	SXA4	Spata, Greece	Navy	Greece
8642	GYA4	London, England	Navy	England
8659	SXA4	Spata, Greece	Navy	Greece
8662	CFH	Halifax, Canada	Navy	Canada
8666	6WW	Dakar, Senegal	Navy	France
8678	ZLO	Irirangi, New Zealand	Navy	New Zealand
8680	JWT	Stavanger, Norway	Navy	Norway
8702	PJK3	Suffisant, Curacao	Navy	Holland
8706	4XZ	Haifa, Israel	Navy	Israel
8708	PBC3	Goeree, Holland	Navy	Holland
8710	FUG	Algiers, Algeria	Navy	France
8716			Navy	Spain
8722			Navy	France
8726	GZC4	Mauritius	Navy	England
8759			Army	Japan
9033.5	MQP	Upavon, England	Air Force	England
	MPU	Luga, Malta	" "	"
9973	CCS	Santiago, Chile	Navy	Chile
10,148	MKE	Akrotiri, Cyprus	Air Force	England
10,550	CCM	Magallenes, Chile	Navy	Chile
10,945	CFH	Halifax, Canada	Navy	Canada
11,030	AXM34	Canberra, Australia	Air Force	Australia
11,209	CHR	Trenton, Canada	Air Force	Canada
	CJX	St. Johns, NFLD, Canada	" "	"
	DHM95	Lahr, G.F.R.	" "	"
	VXA	Edmonton, Canada	" "	"
11,234.5			Air Force	England
11,247.5	CFH	Halifax, Canada	Navy	Canada
11,398	CCS	Santiago, Chile	Navy	Chile

kHz	Call	Location	Service	Nationality
11,455	JWT	Stavanger, Norway	Navy	Norway
12,035	ZLP	Irirangi, New Zealand	Navy	New Zealand
12,105	MLF	Luga, Malta	Air Force	England
12,148	PJK5	Suffisant, Curacao	Navy	Holland
12,205	PJK5	Suffisant, Curacao	Navy	Holland
12,325	GYU	Gibraltar	Navy	England
12,329	OVG	Frederikshavn, Denamrk	Navy	Denmark
12,507	CCM	Magallenes, Chile	Navy	Chile
12,526	CCM	Magallenes, Chile	Navy	Chile
12,691				France
12,693	ZRQ	Simonstown, South Africa	Navy	South Africa
12,698	FUJ	Noumea, New Caledonia	Navy	France
12,702	CKN	Vancouver, Canada	Navy	Canada
12,718.5	ZLO	Irirangi, New Zealand	Navy	New Zealand
	VWM	Madras, India	Navy	India
12,724	6XS	Diego Suarez, Malagasy Rep.	Navy	France
12,732	GZO	Hong Kong	Navy	England
12,741	ZRQ	Simonstown, South Africa	Navy	South Africa
12,781.5	GYS5	Singapore	Navy	England
12,804	VTG	Vizagapatam, India	Navy	India
12,825.5	GYU	Gibraltar	Navy	England
12,829	CTP	Osiras, Portugal	Navy	Portugal
12,837	VTP	Vizagapatam, India	Navy	India
12,844.5	MHU5	London, England	Navy	England
12,894	FUF	Fort de France, Martinque	Navy	France
12,907.5	VHP5	Belconnen, Australia	Navy	Australia
12,921	GYA5	London, England	Navy	England
12,935	GYP	Hong Kong	Navy	England
12,939	OVG	Frederikshaven, Denmark	Navy	Denmark
12,943.5	ZLP2	Irirangi, New Zealand	Navy	New Zealand
12,944.5	CKN	Vancouver, Canada	Navy	Canada
12,963	HAR	Budapest, Hungary		Hungary
12,970.5	SUH	Alexandria, Egypt	Navy	Egypt
12,983.5	4XZ	Haifa, Israel	Navy	Israel
12,984	CFH	Halifax, Canada	Navy	Canada
12,988.5	GZC4	Mauritius	Navy	England
13,001	JWT	Stavanger, Norway	Navy	Norway
13,010.9	AQP	Karachi, Pakistan	Navy	Pakistan
13,033.5	GZV	Mauritius	Navy	England
13,035	ZLP	Irirangi, New Zealand	Navy	New Zealand
13,041	CCS	Santiago, Chile	Navy	Chile
13,042.5	XXU23	Mindelo, Cape Verde Islands	Navy	Portugal
	CTV3	Monsanto, Portugal	"	"
13,052.5	EBA	Madrid, Spain	Navy	Spain
13,083	FUJ	Noumea, New Caledonia	Navy	France
	FUV	Djibouti, Afars & Issas	"	"
13,231		Lahr, G.F.R.	Air Force	Canada
13,382	MPU	Luga, Malta	Air Force	England
13,657	IDR5	Rome, Italy	Air Force	Italy
14,602.5	MKE	Akrotiri, Cyprus	Air Force	England
14,794	PWI	Recife, Brazil	Navy	
15,036			Air Force	Canada
15,915			Navy	Canada
16,050	ZRH	Simonstown, South Africa	Navy	South Africa
16,160	MEX	Gan, Maldive Islands	Air Force	England
16,220	MKD	Akrotini, Cyprus	Air Force	England
16,270	PJK5	Suffisant, Curacao	Navy	Holland
16,918.8	MHU6	London, England	Navy	England
	VIX	Belconnen, Australia	Navy	Australia
16,939.5	VTG	Vizagapatam, India	Navy	India
16,965	ZRQ	Simonstown, South Africa	Navy	South Africa
16,978.4	GZC	Mauritius	Navy	England
16,988	ZRH	Wynberg, South Africa	Navy	South Africa
17,052	4XZ	Haifa, Israel	Navy	Israel
17,055.2	CTV7	Monsanto, Portugal	Navy	Portugal
17,065	FUX	St. Denis, Reunion	Navy	France
17,108	FUF	Fort de France, Martinque	Navy	France
17,132	ZSJ6	Commcen Cape, S. Africa	Navy	South Africa

kHz	Call	Location	Service	Nationality
17,213.6	6WW	Dakar, Senegal	Navy	France
17,253.8	CCS	Santiago, Chile	Navy	Chile
17,447.5		N'Djamena, Chad	Air Force	France
17,590	CCS	Santiago, Chile	Navy	Chile
	LOL	Buenos Aires, Argentina	Navy	Argentina
	YWM	Maracaibo, Venezuela	Navy	Venezuela
17,606	CXR	Montvideo, Uruguay	Navy	Uruguay
17,655	FUJ	Noumea, New Caledonia	Navy	France
17,680	IDO20	Rome, Italy		Italy
18,036.5	CCS	Santiago, Chile	Navy	Chile
18,245	LUB	Buenos Aires, Argentina	Air Force	Argentina
19,622	4XZ	Haifa, Israel	Navy	Israel
19,785	CTV79	Monsanto, Portugal	Navy	Portugal
20,148	6R4	Pasni, Pakistan	Navy	Pakistan
21,890	CFH	Halifax, Canada	Navy	Canada
22,378	VTG	Vizagapatam, India	Navy	India
22,424.2	AQP	Karachi, Pakistan	Navy	Pakistan
22,533	ZSJ7	Commcen Cape, S. Africa	Navy	South Africa
22,576	4XZ	Haifa, Israel	Navy	Israel
22,592	6WW	Dakar, Senegal	Navy	France
22,616	GZV	Mauritius	Navy	England

8 INTERPOL

If you think it is difficult to escape police/detective stories on TV, imagine the chagrin of the international criminal who finds that his police records follow him around the world. The shortwave network of the "International Criminal Police Organization" (INTERPOL) is alive with RTTY and CW messages (estimated in excess of 10,000,000 words per year). Virtually all of the information is coded and pertains to crimes committed, methods of operating, identification, etc. The INTERPOL headquarters are outside of Paris, France, in St. Cloud where there are 12 transmitters (500 to 3000 watts) on call. Not all INTERPOL members have radio talkback circuits (notably there is none listed for the USA—although this is questionable). Since the previous listing in CFL, two new stations have come on the air—5BP2 in Nicosia, Cyprus and 5YG in Nairobi, Kenya. Reports from our monitors indicate that certain frequencies are primaries and these are underlined in the listing.

kHz	Call	Location
2593	OEQ20	Vienna, Austria
2840	7RA20	Algiers, Algeria
	OEQ21	Vienna, Austria
	ONA20	Brussels, Belgium
	OWS	Copenhagen, Denmark
	GMP	London (West Wickham), England
	OGX	Helsinki, Finland
	FSB51	Paris (St. Cloud), France
	DHA33	Wiesbaden, G.F.R.
	IUV81	Rome, Italy
	LXF50	Luxembourg
	PDB2	Utrecht, Netherlands
	LJP22	Oslo, Norway
	CSI63	Lisbon, Portugal
	SHX	Stockholm, Sweden
	HEP28	Zurich (Waltikon), Switzerland
<u>3593</u>	7RA20	Algiers, Algeria
	OEQ20	Vienna, Austria
	ONA20	Brussels, Belgium
	LZH7	Sofia, Bulgaria
	5BP2	Nicosia, Cyprus
	OWS	Copenhagen, Denmark
	SUA81	Cairo, Egypt
	GMP	London, England
	SXP	Athens, Greece
	OGX	Helsinki, Finland
	FSB52	Paris, France
	DHA33	Wiesbaden, G.F.R.
	4XP63	Tel Aviv, Israel
	IUV81	Rome, Italy
	LXF50	Luxembourg
	CNT	Rabat, Morocco
	LJP33	Oslo, Norway
	CSI60	Lisbon, Portugal
	SHX	Stockholm, Sweden
	HEP35	Zurich, Switzerland
	TCC2	Ankara, Turkey
	4NX8	Belgrade, Yugoslavia
<u>4632.5</u>	7RA20	Algiers, Algeria
	OEQ20	Vienna, Austria
	ONA20	Brussels, Belgium
	OWS	Copenhagen, Denmark
	GMP	London, England
	OGX	Helsinki, Finland
	FSB53	Paris, France
	DHA33	Wiesbaden, G.F.R.
	IUV81	Rome, Italy
	LXF50	Luxembourg
	CNT	Rabat, Morocco
	PDB2	Utrecht, Netherlands

kHz	Call	Location
4632.5	LJP24	Oslo, Norway
	CSI61	Lisbon, Portugal
	EEQ	Madrid, Spain
	SHX	Stockholm, Sweden
	HEP46	Zurich, Switzerland
	4NX7	Belgrade, Yugislavia
5104	FSB	Paris, France
5208	DHA33	Wiesbaden, G.F.R.
	FSB	Paris, France
	HEP52	Zurich, Switzerland
5305.5	FSB	Paris, France
6792	7RA20	Algiers, Algeria
	OEQ24	Vienna, Austria
	ONA20	Brussels, Belgium
	XJE57	Almonte (Ottawa), Canada
	5BP4	Nicosia, Cyprus
	OWS3	Copenhagen, Denmark
	GMP	London, England
	OGX	Helsinki, Finland
	FSB54	St. Martin Abbat, France
	FSB95	Paris, France
	DHA33	Wiesbaden, G.F.R.
	4XP40	Tel Aviv, Israel
	IUV81	Rome, Italy
	5YG	Nairobi, Kenya
	ODW21	Beirut, Lebanon
	LXF50	Luxembourg
	CNT	Rabat, Morocco
	PDB2	Utrecht, Netherlands
	LJP26	Oslo, Norway
	CSI60	Lisbon, Portugal
	EEQ	Madrid, Spain
	SHX	Stockholm, Sweden
	HEP67	Zurich, Switzerland
	4NX15	Belgrade, Yugoslavia
	9TK20	Kinshasa, Zaire
6905	FSB	Paris, France
	HEP26	Zurich, Switzerland
7401	FSB	Paris, France
	DHA33	Wiesbaden, G.F.R.
7532	OEQ25	Vienna, Austria
	ONA20	Brussels, Belgium
	OWS	Copenhagen, Denmark
	GMP	London, England
	FSB55	Paris, France
	DHA33	Wiesbaden, G.F.R.
	4XP66	Tel Aviv, Israel
	IUV81	Rome, Italy
	JPA55	Komaki, Japan
	JPA25	Tokyo, Japan
	LXF50	Luxembourg
	PDB2	Utrecht, Netherlands
	CNT	Rabat, Morocco
	LJP27	Oslo, Norway
	CSI65	Lisbon, Portugal
	EEQ	Madrid, Spain
	SHX	Stockholm, Sweden
	HEP75	Zurich, Switzerland
	4NX7	Belgrade, Yugoslavia
7832	FSB69	Paris, France
7906	FSB70	Paris, France
8038	DHA33	Wiesbaden, G.F.R.
	FSB	Paris, France
	HEP88	Zurich, Switzerland
8045	DHA33	Wiesbaden, G.F.R.
	FSB	Paris, France
	HEP85	Zurich, Switzerland
9105	XJD48	Ottawa, Canada
9200	7RA20	Algiers, Algeria
	ONA20	Brussels, Belgium
	OWS	Copenhagen, Denmark
	GMP	London, England
	FSB56	Paris, France
	DHA33	Wiesbaden, G.F.R.
	XJD48	Ottawa, Canada
	IUV81	Rome, Italy
	CNT	Rabat, Morocco
	LJP29	Oslo, Norway
	CSI66	Lisbon, Portugal
	EEQ	Madrid, Spain
	SHX	Stockholm, Sweden
	HEP92	Zurich, Switzerland
	4NX7	Belgrade, Yugoslavia
10,295	FSB71	Paris, France
10,390 *	7RA20	Algiers, Algeria
	AYA47	Buenos Aires, Argentina
	OEQ26	Vienna, Austria
	ONA20	Brussels, Belgium
	XJE57	Almonte, Canada
	OWS4	Copenhagen, Denmark
	5BP2	Nicosia, Cyprus
	GMP	London, England
	OGX	Helsinki, Finland
	FSB57	Paris, France
	4XP41	Tel Aviv, Israel
	IUV81	Rome, Italy
	JPA56	Komaki, Japan
	JPA26	Tokyo, Japan
	ODW22	Beirut, Lebanon
	LXF50	Luxembourg
	PDB2	Utrecht, Netherlands
	CNT	Rabat, Morocco
	LJP20	Oslo, Norway
	CSI63	Lisbon, Portugal
	EEQ	Madrid, Spain
	SHX	Stockholm, Sweden
	HEP39	Zurich, Switzerland
	TCC2	Ankara, Turkey
	9TK21	Kinshasa, Zaire
11,538	FSB	Paris, France
	HEP58	Zurich, Switzerland
	SHX	Stockholm, Sweden

**Our monitors in Europe insist that a North American station operates on this frequency and that it signs with the call "WWA." This might then be the USA station for INTERPOL.*

kHz	Call	Location
13,520	FSB72	Paris, France
	HEP27	Zurich, Switzerland
	JPA61	Komaki, Japan
13,747	FSB73	Paris, France
13,820	FSB74	Paris, France
	JPA58	Komaki, Japan
14,817.5	7RA20	Algeirs, Algeria
	AYA48	Buenos Aires, Argentina
	OEQ27	Vienna, Austria
	ONA20	Brussels, Belgium
	XJD48	Ottawa, Canada
	TTR148	N'Djamena, Chad
	5BP7	Nicosia, Cyprus
	OWS	Copenhagen, Denmark
	GMP	London, England
	OGX	Helsinki, Finland
	FSB58	Paris, France
	DHA33	Wiesbaden, G.F.R.
	4XP64	Tel Aviv, Israel
	IUV81	Rome, Italy
	JPA51	Komaki, Japan
	JPA21	Tokyo, Japan
	5YG	Nairobi, Kenya
	LXF50	Luxembourg
	PDB2	Utrecht, Netherlands
	CNT	Rabat, Morocco
	LJP34	Oslo, Norway
	CSI64	Lisbon, Portugal
	EEQ	Madrid, Spain
	SHX	Stockholm, Sweden
	HEP87	Zurich, Switzerland
	TCC2	Ankara, Turkey
	4NX25	Belgrade, Yugoslavia
	9TK22	Kinshasa, Zaire
15,502.5	FSB73	Paris, France
15,578	FSB74	Paris, France
15,592	FSB75	Paris, France
15,684	FSB	Paris, France
	JPA62	Komaki, Japan
18,190	FSB59	Paris, France
	PDB2	Utrecht, Netherlands
	HEP81	Zurich, Switzerland
18,380	FSB60	Paris, France
	PDB2	Utrecht, Netherlands
	HEP83	Zurich, Switzerland
19,130	AYA94	Buenos Aires, Argentina
	OEQ28	Vienna, Austria
	XJD48	Ottawa, Canada
	FSB61	Paris, France
	4XP43	Tel Aviv, Israel
	IUV81	Rome, Italy
	JPA59	Komaki, Japan
	PDB2	Utrecht, Netherlands
	OAV87	Lima, Peru
	TCC2	Ankara, Turkey
19,360	AYA27	Buenos Aires, Argentina
	XJE57	Almonte, Canada
	OWS	Copenhagen, Denmark
	FSB62	Paris, France
	GMP	London, England
	JPA57	Komaki, Japan
	JPA27	Tokyo, Japan
	PDB2	Utrecht, Netherlands
	HEP93	Zurich, Switzerland
	4NX7	Belgrade, Yugoslavia
	9TK23	Kinshasa, Zaire
19,405	FSB63	Paris, France
21,785	XJE57	Almonte, Canada
	FSB66	Paris, France
21,807.5	FSB67	Paris, France
24,070	FSB74	Paris, France
24,110	AYA29	Buenos Aires, Argentina
	XJD48	Ottawa, Canada
	FSB65	Paris, France
	GMP	London, England
	9TK25	Kinshasa, Zaire

9 Communist Broadcast Feeders

Mainland China, North Korea and the Soviet Union employ a number of SSB broadcast program feeders and relay stations—many of which can be heard in North America. Some of these feeds are necessitated by the lack of high quality telephone lines and microwave links across the vast land areas of China and the USSR. The China feed to Radio Tirana, Albania is a special case and similar to the scores of feeders used by the VOA, BBC, etc. Listeners will note that some feeds are reversed tape recordings making identification difficult (reverse tapes make playback easier for the relay broadcaster). These stations were monitored during the latter part of 1975, but all frequencies are subject to erratic changes.

3015	Pyongyang, N. Korea	6550	Radio Peking, P.R.C.
3560	Pyongyang, N. Korea	6770	Radio Moscow, USSR
3890	Pyongyang, N. Korea	6807	Radio Moscow, USSR
5255	Radio Moscow, USSR	6825	Radio Moscow, USSR
5470	Radio Moscow, USSR	6825	Radio Peking, P.R.C.

6890	Radio Moscow, USSR
7540	Radio Moscow, USSR
8125	Radio Moscow, USSR
8390	Radio Moscow, USSR
8450	Radio Peking, P.R.C.
8490	Radio Peking, P.R.C.
8660	Radio Peking, P.R.C.
9210	Radio Moscow, USSR
10,120	Radio Moscow, USSR
10,620	Radio Moscow, USSR
11,630	Radio Peking, P.R.C.
11,660	Radio Peking, P.R.C.
12,175	Radio Moscow, USSR
12,205	Radio Moscow, USSR
12,280	Radio Moscow, USSR
13,820	Radio Moscow, USSR
13,960	Radio Moscow, USSR
14,290	Radio Moscow, USSR
14,850	Radio Moscow, USSR
15,440	Radio Moscow, USSR
15,480	Radio Peking, P.R.C.
15,550	Radio Moscow, USSR
15,780	Radio Moscow, USSR
16,030	Radio Moscow, USSR
16,190	Radio Moscow, USSR
17,490	Radio Peking, P.R.C.
17,675	Radio Peking, P.R.C.

10 R.C.M.P.

The Royal Canadian Mounted Police has a vast expanse of land area to protect—an undertaking that would be virtually impossible without radio communications. Several years ago, the RCMP installed an inner-Canadian network of medium-power SSB transmitters. This system replaced and/or augmented an older network of AM transmitters. Some RCMP stations in the smaller outposts continue to use AM and are found on 4475 kHz (mostly Alberta), 4775 kHz (mostly British Columbia and some Ontario), or 4785 kHz. There appears to be occasional use of CW. Under a dozen stations operate on 2326, 2788 or 3325 kHz. As this list was being prepared, the principal frequencies used in the SSB networks were 4783.5, 4786.5, 7781.5, 9106.5 and 14,621.5 kHz. The frequency of 7778.5 kHz is used for general broadcasts and is not a talkback circuit. According to the ITU, station XJD48 uses 4785 kHz for communication with Washington, DC and XJA54 uses 4805 kHz for communication with Spokane, WA.

XJA29	Ocean Falls, BC
XJA31	Jeune Landing, BC
XJA36	Alert Bay, BC
XJA43	Vancouver, BC
XJA44	Prince Rupert, BC
XJA54	Nelson, BC
XJA55	Kamloops, BC
XJA82	Truro, NS
XJD20	Chicoutimi, QUE
XJD28	Roddicton, NFLD
XJD33	Pond Inlet, NWT
XJD34	Pangnirtun, NWT
XJD48	Ottawa, ONT
XJD54	Churchill, NFLD
XJD64	Corner Brook, NFLD
XJD84	Upper Sackville, NS
XJD97	Fort Pepper, NFLD
XJD202	Nain, NFLD
XJD203	Cartwright, NFLD
XJD503	Snowdrift, NWT
XJE22	Fredericton, NB
XJE30	Sydney, NS
XJE41	Calgary, ALTA
XJE42	Edmonton, ALTA
XJE48	Regina, SASK
XJE50	Swift Current, SASK
XJE53	Gordon, MAN
XJE57	Almonte, ONT
XJE65	Montreal, QUE
XJE78	Grisefiord, NWT
XJE79	Toronto, ONT
XJE80	Pembroke, ONT
XJE87	St. Jerome, QUE
XJE263	Hudson Bay, SASK
XJE272	Inuvik, NWT
XJE274	Yellowknife, NWT
XJE296	Montreal, QUE
XJE307	Brandon, MAN
XJE323	St. Anthony, NFLD
XJE324	Port Saunder, NFLD
XJE325	Hopewell, NFLD
XJE361	Baker Lake, NWT
XJE376	Dauphin, MAN
XJE390	Forteau, NFLD
XJE396	Uranium City, SASK
XJE416	Halifax, NS
XJE419	Dawson, YUK
XJE442	Frobisher, NWT
XJE459	L. Harbour, NWT
XJE465	Rimouski, QUE
XJE511	Wesleyville, NFLD
XJE534	Fort Chipewyan, ALTA
XJE587	Seven Islands, QUE
XJE612	Beaver Creek, YUK
XJK68	Whitehorse, YUK
XJK69	Watson Lake, YUK
XJK70	Teslin, YUK
XJL20	Burgeo, NFLD
XJL35	Mayo, YUK
XJL75	Happy Valley, NFLD
XJL87	Hay Lakes, ALTA
XJO25	N. Battleford, SASK
XJO43	Eskimo Point, NWT
XJO47	Owens Sound, ONT
XJO67	Saskatoon, SASK

11 RTTY Press

The number of radioteletype stations in the shortwave spectrum is increasing at an unbelievable rate. The reasons are easy to enumerate; more words or figures per minute of air time, a "hard copy" printout for filing and a payroll saving by eliminating the specialized CW operator—modern sophisticated receivers are either computer controlled or can be tuned by the most inexperienced operator. RTTY communications can be divided into three general categories; traffic, weather and press. This listing deals only with RTTY stations that have been monitored recently while transmitting news and press reports. Weather service RTTY stations are in a separate list and traffic RTTY stations appear in various other lists throughout this edition of CFL. Commonly accepted SWL identifications for languages are used in this list: AA for Arabic, EE for English, FF for French, GG for German, II for Italian, JJ for Japanese, PP for Portuguese, RR for Russian and SS for Spanish. The asterisk indicates that the station and/or frequency is not cataloged by the ITU. Listeners should particularly note that all RTTY press material is considered "privileged" information and to maintain some semblance of confidentiality, these stations make frequent changes in operating schedules and/or frequencies.

kHz	Call	Location	News Agency	Times/Language	Rate
4525	LZI*	Sofia, Bulgaria	BTA	0800 EE 1830 EE	
4623	SOE26	Warsaw, Poland		2100 EE	
4840	DBT	Königs Wusterhausen, G.D.R.	ZID	0800 GG	
5027.5	OLC7	Prague, Czechoslovakia	Ceteka	2130 RR	
5040	WWF25	Tangier, Morocco	SpEurF	2130 EE	
5097.5	JAB35	Tokyo, Japan	KDD/DPA	1110 EE 1500 EE	
5220	SUA94	Cairo, Egypt	MEMA	1830 EE	
5265	WMF55	San Francisco, CA	AP	EE	66/425
5450	4OD	Belgrade, Yugoslavia	Tanjug	1200	
5470	RKU29	Moscow, USSR	Tass	1845 EE	
5741	SOF27	Warsaw, Poland	PAP	2100 EE	
5830	RWD52	Moscow, USSR	Tass	1715 EE	
5842	FTF84	Paris, France	AFP	2230 FF	
5850	SUA79	Giza, Egypt	MEMA	2200 AA	
6767.5	OLH4	Prague, Czechoslovakia	Ceteka	1700 EE	
6845	ISY68	Rome, Italy	ANSA	1800 EE	
6848	SOG48	Warsaw, Poland	PAP	2000 EE	
6855	GPE26	Oxford, England	Reuters	1800 EE	
6860	WWF36	Tangier, Morocco	SpEurF	0800 EE 2130 EE	
6861.5	CLN45	Havana, Cuba		SS	66/425
6888	SOG68	Warsaw, Poland	PAP	1615 EE 1830 EE	
6890	WWF56	Tangier, Morocco	SpEurF	2130 EE	
6915	BGE65	Nanking, P.R.C.	Hsinhua		
6935	WFA36	New York, NY	AP	0400 SS 2330 SS	
6972	YOG59	Bucharest, Romania	Agerpres	1800 FF 1900 FF	
6985	GIC26	Dorchester, England	AP	0500 EE	
7328	OLW4	Prague, Czechoslovakia	Ceteka	0055 EE 1700 EE	60/425
7425	DMV5	Königs Wusterhausen, G.D.R.	ADN	0800 GG	
7447	GAY27	Rugby, England	LPS	2300 EE	
7465	CLN66	Havana, Cuba	PL	0300 SS	
7490	DFG49	Bonames, G.F.R.	DPA	1615 GG 1900 EE	
7535	*	Lima, Peru	AFP	SS	66/425
7560	RPT30	Tashkent, USSR	Tass	1900	
7615	CLN75	Havana, Cuba	PL	0300 SS	
	RTT44	Moscow, USSR	Tass	1900	
7625.5	WFH97	New York, NY	ANSA	0100 SS	60/425
7650			Hsinhua	1930 EE	
7658	YZO	Belgrade, Yugoslavia	Tanjug	1855	
7690			Hsinhua	1900 FF	
7717.5	WWF77	Tangier, Morocco	SpEurF	2130 EE	
7737.5	WFA37	New York, NY	AFP	SS	66/425
7806	YZD7*	Belgrade, Yugoslavia	Tanjug	1900 EE	
7840	CLN86	Havana, Cuba	PL	SS	66/425
7845	SOH28	Warsaw, Poland	PAP	1700	
7847	SOH38	Warsaw, Poland	PAP	1830 EE	
7849.5	WFI57	New York, NY	UPI	SS EE	
7850	ZAA	Tirana, Albania	ATA	1200 FF	

kHz	Call	Location	News Agency	Times/Language	Rate
7895	OLX2	Prague, Czechoslovakia			66/425
8022.5	FTI2	Lyon, France	AFP	0130 EE 1715 EE	
8035	RPT30	Tashkent, USSR	Tass	2110 FF	
8043	HPG	Panama City, Panama	PLP	SS	66/425 R
8055	LZA2	Sofia, Bulgaria	BTA	1830 EE	
8067.5	DMV7	Königs Wusterhausen, G.D.R.	ADN	1800 EE	
8081	SOI30	Warsaw, Poland	PAP	1930 EE	
8102.5	FYI	Paris, France	AFP	1845 FF	
8133	SOI21	Warsaw, Poland	PAP	1700 EE	
8142.5	OLX4	Prague, Czechoslovakia	Ceteka	1845 FF	
8182	PDK68	Kootwijk, Netherlands	UPI	1615 EE	66/450
8192.5	SOI31	Warsaw, Poland	PAP	2000 EE	
8204	HMH22	Pyongyang, N. Korea	ATCC	1845 FF	
8226	VNA6	Hanoi, Vietnam	VNA	1545 EE	
9050	BZK29*		Hsinhua	2100 SS	
9053	DMV8	Königs Wusterhausen, G.D.R.	ADN	1800 EE	
9062	DBV*	Königs Wusterhausen, G.D.R.	ZID	0800 GG	
9075	GPR29	Oxford, England	Reuters	1630 EE	
9100	WWF69	Tangier, Morocco	SpEurF	2130 EE	
9111	CCS*	Santiago, Chile	PL	0115	65/850
9120	GPN29	Oxford, England	Reuters	1900 EE	
9135	ZAA51*	Tirana, Albania	Hsinhua	1900	
9200	PDK39	Kootwijk, Netherlands	UPI	1800 EE	
9235	GKQ29	Rugby, England	Reuters	1800 EE	
9305	*	Damascus, Syria	Sana	1600 AA 1700 FF	
9327.5	WFI29	New York, NY	UPI "W"	EE	60/425
9350	GIC29	Oxford, England		0430 2030 EE	66/425
9353	OLX5	Prague, Czechoslovakia	Ceteka	0055 EE 2100 SS	66/425
9362.5	DFJ36	Bonames, G.F.R.	DPA	0745 GG 1900 EE	
9363.5	CLN261	Havana, Cuba	PL	EE	66/425 R
9391	SOJ23	Warsaw, Poland	PAP	1930 EE	
9395	FTJ39	Paris, France	AFP	1800 EE	
9430	ZAT*	Tirana, Albania	ATA	0930 FF 1700 FF	
9443	ISX95	Rome, Italy	ANSA	1700 EE	
9490	BZR96*		Hsinhua	1930 EE	
9788	FTJ78	St. Assise, France	Diplo-F.	0900 FF	
9797	YOJ27	Seica, Romania	Agerpres	0930 EE	
9833	HGG*	Budapest, Hungary	MTI	0700 EE	
9880	BZG46*		Hsinhua	1445 FF	
9895	ZEN45	Hongkong	UPI	1615 EE	
9930	FTJ93	Paris, France	AFP	1000	60/425
9950	YZF	Belgrade, Yugoslavia	Tanjug	1915 EE	
9955.5	CLN265	Havana, Cuba	PL	0800 SS	66/425
9967	DMV9	Königs Wusterhausen, G.D.R.	ADN	2100 SS	
10,102	YIE99	Baghdad, Iraq	INA	1530 EE	
10,165	RPT31	Tashkent, USSR	Tass	1515 FF	
10,185	FPK8	Paris, France	AFP	1730 FF	
10,240	RGE34	Moscow, USSR	Tass	2215 EE	
10,245	SOK42	Warsaw, Poland	PAP	1900 EE	
10,278.75	YZA9	Belgrade, Yugoslavia	Tanjug	1730 EE	
10,362	DZG30	S. Juan Pizal, Philippines	APF/UPI		
10,395	9VF62	Singapore	Reuters	1600 EE	
10,435	ZAY	Tirana, Albania	Hsinhua	0100 SS	
10,465	RKA74	Moscow, USSR	Tass	1130 EE	
10,475	WWH60	Tangier, Morocco	SpEurF	2130 EE	
10,497	SOK44	Warsaw, Poland	PAP	2000 EE	
10,502	5YF46	Nairbobi, Kenya	Reuters	1800 EE	
10,560	FTK56	Paris, France	AFP	1830 FF	60/425
10,562.5	DZP26	Manila, Philippines	AP		
10,580	HMK29	Pyongyang, N. Korea	KCNA	1900 EE	66/425 R
10,592.5	WFL30	New York, NY	UPI	SS	
10,600	VNA25*	Hanoi, Vietnam	VNA	1730	
10,615	FTK61	Paris, France	AFP	1950	
10,675	RCF43	Moscow, USSR	Tass	1815 FF	
10,748	WFL60	New York, NY	ANSA	1130	60/425
10,750	5OU47	Lagos, Nigeria	Reuters	1800 EE	
10,785	DKG7	Berlin, G.D.R.	ADN		

kHz	Call	Location	News Agency	Times/Language	Rate
10,790	RKA71	Moscow, USSR	Tass	1930 EE	
10,810	9VF249	Singapore	ANSA	1700	
10,820	ODI82	Beirut, Lebanon	Reuters	1900 EE	
10,825	WFE20	New York, NY	UPI	1145 SS	60/425
10,880	ISX88	Rome, Italy	ANSA	1700	
	RYG	Moscow, USSR	Tass	1900 SS	
10,890	WFE40	New York, NY	AP	0400 EE 2330 SS	60/425
10,930	GLQ30	Ongar, England	JTA	1830 EE	
10,940	FTK94	Paris, France	AFP	1945 SS	
10,960	GPE30	Oxford, England	Reuters	1945 SS	
10,985	GPR30	Oxford, England	Reuters	1815 EE	
10,990	CLN299	Havana, Cuba	PL	SS	66/425
11,000	DGL20	Elmshorn, G.F.R.	ZID	1045 GG	
11,125	DFL26	Bonames, G.F.R.	DPA	0600 FF 1500 EE	
11,142.5	WER91	New York, NY	USIA	2200 EE	
11,157.5	WES41	New York, NY	UPI	1300 SS	
11,162.6	HMK27*	Pyongyang, N. Korea	KCNA		66/850 R
11,230	HMR56*	Pyongyang, N. Korea	ATCC	1850 FF	
11,430	HMN31*	Pyongyang, N. Korea	KCNA	1530 EE 1900 FF	
11,459	DBX	Königs Wusterhausen, G.D.R.	ZID	0800 GG	
11,502	LZH4	Kostinbrod, Bulgaria	BTA	0800 EE	
11,623	SOL36	Warsaw, Poland	PAP	1700 EE	
11,625	ODJ62	Beirut, Lebanon	Reuters	1000 EE	
11,640	DZP28	Manila, Philippines	AP		
11,641.5	WFL71	New York, NY	UPS	SS	
12,048	YZG	Belgrade, Yugoslavia	Tanjug	0900	
12,070	JAL32	Tokyo, Japan		0630 EE	66/425
12,100	OCB73	Lima, Peru	PL	0050 SS	66/850
12,265	*		Hsinhua	1630	
12,275	JAL82	Tokyo, Japan	DPA	1110	
12,280	GBU32	Dorchester, England	AP	0600 EE	
12,285	RKU74	Moscow, USSR	Tass	1715 EE	
12,301	CLN370*	Havana, Cuba	PL		75/425
12,311.6	HMF52*	Pyongyang, N. Korea	KCNA	60/	60/850 R
12,315	RVW57	Moscow, USSR	Tass	1400 EE	
13,120	VNA21*	Hanoi, Vietnam	VNA	1730 FF	
13,380	OCB75	Lima, Peru	PL		
13,410	RIF38	Moscow, USSR	Tass	1900	
13,438	DFN43	Bonames, G.F.R.	DPA	1600 FF 1800 EE	
13,440	YZJ5*	Belgrade, Yugoslavia	Tanjug	1600 EE	
13,470	WWH53	Tangier, Morocco	SpEurF	0800 EE	
13,480	WER73	New York, NY	UPI		
13,487.5	ISX35	Rome, Italy	ANSA	1000 EE 1200 FF	
13,512	HMS61*	Pyongyang, N. Korea	KCNA	1930 EE	66/425
13,516	CLN405	Havana, Cuba	PL	2130 SS	66/425
13,535	WFM73	New York, NY	JTA	1000 EE 1200 FF	
13,580	HMK25*	Pyongyang, N. Korea	KCNA	1900 EE	66/850
13,607.5	WWH93	Tangier, Morocco	SpEurF	0800 EE	
13,625	GPP33	Rugby, England	AZAP	0600 FF	
13,647.5	OLI5	Prague, Czechoslovakia	Ceteka	1445 FF	
13,652	SUA50*	Cairo, Egypt	MENA	1400 EE 1745 JJ	
13,710	CLN409	Havana, Cuba	PL	1900 SS	
13,780	HME28*	Pyongyang, N. Korea	KCNA	0330 1530 EE	
13,826	CLN411	Havana, Cuba	PL	EE	66/425
13,843	WFK93	New York, NY	ANSA	II SS	66/425
13,850	4XA83	Tel Aviv, Israel	JTA	1300 EE 1815 EE	
13,890	YVV2	Peraza, Venezuela	PL	1300 SS	
13,895	DMV47*	Königs Wusterhausen, G.D.R.	ADN	1300 1800 EE	
13,907	CVN4	Paja Blancas, Uruguay	DPA	1900 SS	
13,935	RVW57*	Moscow, USSR	Tass	1900 SS	
13,974	ISX19	Rome, Italy	ANSA	1700 EE	
13,990	LRO82	Buenos Aires, Argentina	FFE	2100 SS	
13,998	FTN99	Lyon, France	Diplo-F	0900 FF	
14,336	BZP54*		Hsinhua	1745 EE	
14,362	SOO23	Warsaw, Poland	PAP	1100 EE	
14,410	RIZ54	Tashkent, USSR	Tass	0730 EE	
14,500	SOO25	Warsaw, Poland	PAP	1900 EE	

kHz	Call	Location	News Agency	Times/Language	Rate
14,515	GPN34	Oxford, England	Reuters	1500 EE 1600 FF	
14,520	*		PL	0000 SS	60/425
14,570	HML60*	Pyongyang, N. Korea	KCNA	0300 0800 EE	66/850
14,584	OLM2	Prague, Czechoslovakia	Ceteka	1600 EE	
14,627.5	CLN446	Havana, Cuba	PL	1145 SS	66/425
14,632	YZC2	Belgrade, Yugoslavia	Tanjug	1700 SS	
14,638	WFK54	New York, NY		2230 SS	60/425
14,660	WFL41	New York, NY	UPI "B"		60/425 R
14,673	YOO26	Bucharest, Romania	Agerpres	1100	
14,680	RPT30*	Tashkent, USSR	Tass	1600 FF	
14,690	RIC73	Moscow, USSR	Tass	1745 FF	
14,695	WFD24	New York, NY	UPI	1500 SS	60/850
14,710	WFD34	New York, NY	AP	1400 SS	66/425 R
14,719	JAN24	Tokyo, Japan	DPA	0000	66/425
14,720	RKB58	Moscow, USSR	Tass	0530	
14,725	WFD44	New York, NY	DPA	1100 SS	66/425
14,760	WWH44	Tangier, Morocco	MAP	1200 FF	
14,770	WER24	New York, NY	UPI		
14,785	ATP65	New Delhi, India	InfoInd	1430 EE	
14,795	FTO79	Lyon, France	AFP	1300 EE	
14,804	9VF97	Singpore	ANSA	1700 EE	
14,812.5	DZP30	Manila, Philippines	AP		
14,825	DMV25*	Königs Wusterhausen, G.D.R.	ADN	1800 FF	
14,930	PCL24	Kootwijk, Netherlands		1300 EE	
14,975	GBW34	Dorchester, England	AP	0630 EE	
15,472	DFP47	Bonames, G.F.R.	DPA	0600 FF	66/425
15,472	IRN24	Rome, Italy		II	
15,480		Algiers, Algeria	APS	1000 FF	
15,495	RCV75	Moscow, USSR	Tass	1150 SS	
15,519.5			UPI	0000 EE	
15,550	HPG	Panama City, Panama	PLP	1700 SS	66/170
15,595	RBI72*	Moscow, USSR	Tass	0815	
15,607	WFK45	New York, NY	UPI		60/850
15,613	WFK65	New York, NY	JTA	1715 EE	
15,635	LQD23	Buenos Aires, Argentina	IPS	1700 SS	
15,640	WFK85	New York, NY	UPI "O"		
15,650	FTP65	Paris, France	AFP	1200 FF	66/425
15,703	BZG45*		Hsinhua	1540 FF	
15,765	ZAA6	Tirana, Albania	ATA	0845	
15,865	RBK79	Moscow, USSR	Tass	1600 FF	
15,885	RGW26*	Moscow, USSR	Tass	1700 EE	
15,914	WEY45	New York, NY	AP	1430 EE	66/425
15,920	DEP92	Bonames, G.F.R.		1615 GG	
15,925	RPT32	Tashkent, USSR	Tass	1700 EE	
15,930	RBI78	Moscow, USSR	Tass	1600 FF	
15,945	JAM55	Tokyo, Japan	DPA	0000 EE	66/425
15,952.5	LRB76	Buenos Aires, Argentina	AEL	1115 SS	
15,950	WWH45	Tangier, Morocco	MAP	1530 EE	
15,977.5	FPP97	Paris, France	AFP	1530 EE	
15,983	SOP29	Warsaw, Poland	PAP	0800 EE	
15,995.5	DFP99	Bonames, G.F.R.		1300 EE 1500 EE	66/425
16,106	FPQ	Lyon, France	FF	1600 FF	
16,135	BZR66*		Hsinhua	0700 EE 1500 EE	
16,150	9VF205	Singapore	JiJi	1330 EE	
16,185	FPQ8	Lyon, France	AFP	1000 FF	
16,230	*		Hsinhua	0725	
16,242.5	KUK36	Guam	EAPF	2330 EE	
16,325	*	Königs Wusterhausen, G.D.R.	ADN	1300 EE	
16,343	YZI4	Belgrade, Yugoslavia	Tanjug	1255	
16,372.5	WFD86	New York, NY	UPI "W"		66/425
16,384	VNA30*	Hanoi, Vietnam	VNA	1445	
16,408	HMK45*	Pyongyang, N. Korea	KCNA		66/425
16,419	DMV26	Königs Wusterhausen, G.D.R.	ADN	SS	66/425 R
17,215	*		Hsinhua	1200 EE	
17,370	*		Hsinhua	0930 FF	
17,375	ODP37	Beirut, Lebanon	Reuters	1330 EE	
17,430	9VF209	Singapore	JiJi	1330 EE	

kHz	Call	Location	News Agency	Times/Language	Rate
17,435	DGR43	Elmshorn, G.F.R.		SS	
17,453	CLN565	Havana, Cuba	PL	1615 SS	60/425
17,510	RGW23	Moscow, USSR	Tass	0800 EE	
17,525	OLV3	Prague, Czechoslovakia	Ceteka		66/425
17,545	FTR54	Lyon, France	AFP	1730 FF	
17,560	OMZ	Prague, Czechoslovakia		1730	66/425
17,565	GIW37	Dorchester, England	AP	0700 EE	
17,567	CLN570	Havana, Cuba	PL		
17,570	*	Moscow, USSR	Tass	1200 FF	
17,600	SOQ26	Warsaw, Poland	PAP	1100 EE	
18,040	KUK48	Guam	EAPF	2330 EE	
	TCY4	Ankara, Turkey	AA	1440 FF	
18,145	WFD58	New York, NY	DPA	1400 SS	
18,160	RTU47*	Moscow, USSR	Tass	1245 FF	
18,220	WWH58	Tangier, Morocco	MAP	1200 FF	
18,255	ATB68	New Delhi, India	InfoInd	1430 EE	
18,256	VNA32*	Hanoi, Vietnam	VNA	0645 EE	
18,270	ZAA51*	Tirana, Albania	Hsinhua	1915 FF	
18,273	WFL28	New York, NY		SS	66/425 R
18,312	DFS31	Bonames, G.F.R.	DPA	1500 FF	66/425
18,335	GPE38	Oxford, England	Reuters	0915 EE	
18,460	WFD98	New York, NY	JTA	1715 EE	
18,484	WFK28	New York, NY	UPI	SS	60/425 R
18,490	5OU87	Lagos, Nigeria	Reuters		
18,550	GIY38	Dorchester, England	AP	1400 SS.	
18,560.5	WFL38	New York, NY	USIA	1700 SS	
18,562.5	WMM78	San Francisco, CA			
18,570	JAW48	Tokyo, Japan	AP		
18,577.5	CVN8	Paja Blancas, Uruguay	ANSA	1400 SS	
18,670	FTS67	Paris, France	AFP	0845 FF	
18,685	GPR38	Oxford, England	Reuters	0830 EE	
18,700	DFS70	Bonames, G.F.R.	Info-BRD	0930 GG	
			JiJi	1000 JJ	
			DPA	1100 DPA	
18,700	DMV44*	Königs Wusterhausen, G.D.R.	ADN	1700 SS	
18,732	YKW18*	Damascus, Syria	SANA	1600 AA	
18,760	LPN25	Buenos Aires, Argentina	AEL	1410 SS	
18,785	FTS78	Lyon, France	Diplo-F	1500 FF	
18,832	DMV38*	Königs Wusterhausen, G.D.R.	ADN	1400	
18,860	BAW38*		Hsinhua	0915 EE	
18,885	WER78	New York, NY	UPI		
18,950	ATC69	Kirkee, India	PTI	1230 EE	
18,960	WES58	New York, NY	AP		
18,985	OLD2	Prague, Czechoslovakia	Ceteka	1600 FF	66/425
18,995	OCB58	Lima, Peru	PLLP	2120 SS	
19,067.5	WWH29	Tangier, Morocco	MAP	1200 FF	
19,130	9GN27	Accra, Ghana	GNA	1130 EE 1600 EE	
19,210	RCC79	Moscow, USSR	Tass	1845 FF	
19,235	RWW70*	Moscow, USSR	Tass	1700 EE	
19,345	LRO90	Buenos Aires, Argentina	IPS	1500 SS	
19,365	BZM42*		Hsinhua	1200 EE	
19,470	WMM29	San Francisco, CA	AP		
19,525	OLD4	Prague, Czechoslovakia	Ceteka	1425 SS	66/425
19,540	WFD39	New York, NY	AP		
19,580	WFD59	New York, NY	UPI	SS	60/850 R
19,620	WFD79	New York, NY	AP	1300 EE 1400 SS	
19,645	WWJ29	Tangier, Morocco	USIA	0800 EE	
19,723	DMV39	Königs Wusterhausen, G.D.R.	ADN	0800	
19,800	5YF93	Nairobi, Kenya	Reuters	1045 EE	
19,830	RWW76*	Moscow, USSR	Tass	1600 EE	
19,975	GPA39	Criggion, England	JiJi	1015 JJ	
20,080	FTU8	Paris, France	AFP	0700 EE	
			Diplo-F	1500 FF	
20,085	ISX20	Rome, Italy	ANSA	0700 II 1615 FF	
20,097	GLK40	Dorchester, England	Reuters	0730 EE	
20,110	FYU	Paris, France	AFP	0845 FF 1530 EE	
20,200	PLF4	Jakarta, Indonesia	Antara	1300	

kHz	Call	Location	News Agency	Times/Language	Rate
20,204	YZJ	Belgrade, Yugoslavia	Tanjug	1500	
20,300	ODS30	Beirut, Lebanon	Reuters	1615 EE	
20,315	FTU31	St. Assise, France	AFP	0915 EE	
20,385	GPN40	Oxford, England	Reuters	0700 EE 0945 FF	
20,420	DKC8	Königs Wusterhausen, G.D.R.	ADN	1000 SS	
20,504	FZG4	Fort de France, Martinique	AFP	1600 SS	
20,735	LQA22	Buenos Aires, Argentina	AEL	1700 EE	66/425
20,785	WWJ30	Tanger, Morocco	UPI	0800 EE	
20,799	WFN60	New York, NY	UPI "A"		
20,915	OCA36	Lima, Peru	Reuters	SS	
20,940	CVP20	Pajas Blancas, Uruguay	ANSA	1410 II	
20,950	WWJ40	Tangier, Morocco	UPI	0800 EE	
20,965	RKB70	Moscow, USSR	Tass	1230	
20,980	WFG40	New York, NY	DPA	1400 SS	
20,985	WFG50	New York, NY	UPI "HM"	SS	
21,760	RIF31	Moscow, USSR	Tass	1240	
21,770	RAD23	Samarkand, USSR	Tass	1035 FF	
21,821.5	CUC24	Lisbon, Portugal	LUSIA	0830 PP	
21,822	FTV82	St. Assise, France	AFP	1500 SS	
22,423	UAT	Moscow, USSR	Tass	0815 RR	
22,782.5	WFN62	New York, NY	USIA	1700 SS	
22,790	WEU52	New York, NY	UPI		
22,885	DMV28*	Königs Wusterhausen, G.D.R.	ADN	1200 SS	
22,890	RKB56	Moscow, USSR	Tass	1000	
22,905	DFW90	Bonames, G.F.R.	DPA	1200 EE 1400 EE 1500 SS 1530 GG	66/425
22,915	FTW91	Paris, France	Diplo-F	1500 FF	
22,916.5	GLK42	Dorchester, England	AP	1400 EE	
22,975	WFG42	New York, NY	UPI	1600 SS	

RTTY NEWS AGENCY IDENTIFICATIONS

Abbrev.	Agency
AA	Anadolu Ajansi
ADN	Allgemeiner Deutscher Nachrichtendienst
AEL	Amlat Edit Latin (Reuters)
AFP	Agence France Presse
Agerpres	Agentia Romania de Pressa
ANSA	Agenzia Nazionale Stampa Associata
Antara	Indonesian News Agency
AP	Associated Press
APN	Agenstow Petschati Nowosti
APS	Algérie Presse Service
ATA	Agence Télégraphique Albanaise
ATCC	Agence Télégraphique Central de Corée (Korea)
AZAP	Kinshasa Press
BTA	Bulgarian Telegraph Agency
Ceteka	Ceskoslovenska Tiskova Kanceler
Diplo-F	French Diplomatic Service
DPA	Deutsche Presse Agentur
EFE	Agencia EFE (Spain)
GNA	Ghana News Agency
Hsinhua	New China News Agency
INA	Iraq News Agency
Info-BRD	Informationsfunk de Bundes-regierung
InfoInd	India Information
IPS	Inter Press Service
JiJi	JiJi Tsushin Sha
JTA	Jewish Telegraphic Agency
KCNA	Korean Central News Agency
LPS	London Press Service
LUSIA	Presse Lusitania
MAP	Maghreb Arabe Presse
MENA	Middle East News Agency
MTI	Magyar Tavirati Iroda
PAP	Polska Agencja Prasowa
PL	Prensa Latina Central
PLCCS	Prensa Latina Caracas
PLP	Prensa Latina Panama
PTI	Press Trust of India
Reuters	Reuters Limited
SANA	Syrian Arab News Agency
SpEurF	Special European File
Tanjug	Telegrafska Agencija Nova Jugoslavija
Tass	Telegrafnoje Agenstwo Sowjetskowo Sojusa
USIA	US Information Agency
UPI	United Press International
VNA	Vietnam News Agency
ZID	Zentraler Informationsdienst

12 Numbers Stations

One of the most intriguing things to be heard in the shortwave spectrum is a transmission from a "numbers station." A few imaginative listeners believe these transmissions emanate from spy stations—reminiscent of similar activities during World War II. In general, the numbers transmissions are short broadcasts—usually amplitude modulated—made by a woman announcer reading 4 or 5 digit number groups in the Spanish language. English and German have also been heard from time to time. Single Sideband usage, as opposed to AM, is very minor and confined to the higher frequencies. However, even after hundreds of monitors have made thousands of loggings there is still surprisingly little known about the numbers transmissions. It is convenient—and fashionable—to place the source of all of the transmissions on the doorstep of the Central Intelligence Agency. One factor favoring that arrangement is that some transmissions appear to originate from transmitters that must be close to Washington, DC or Miami, FL. On the other hand, numerous transmissions couldn't be heard on the frequencies and at the times that favor either site. But regardless of the transmitter site, what purpose do these transmissions serve that couldn't be served much better in a more covert fashion? It defies logic to broadcast quasi-confidential information via AM unless the purpose is to camouflage the "intent" of the broadcasts by misdirection. Certainly the numbers themselves are meaningless and according to one analysis made by Michael T. Chabak, many transmissions are repeat broadcasts of earlier transmissions—without a figure changed or out of place. Chabak has been able to find "identifiers", "code keys" and "group counts" in the numbers transmissions; although any message, per se, has yet to come to light. This is a list of activity as monitored during 1975.

kHz	Mode	Digits	Time	Remarks
3060	AM	5	0600	Spanish
3090	AM	5	0640	Spanish
3140	AM	5	0540	Spanish
3220	AM	5		In German with music box ID
3265	AM	8		In Spanish with piano ID
3280	AM	5	0530	In German
3365	AM	5		In German with music box ID and parallel with 3220. Also reported with male announcer in Spanish
4010	AM		1750	In German, heard in Europe
4275	AM	3		Repeats same 3 digits for 5 minutes
4490	AM		2300	Spanish
4515	AM		2300	In German, heard in Europe
4640	AM	5	2110	German
4670	AM	4	0220	English, also 5 digits at 1420
4690	USB	5	0300	Spanish
4700	AM		1000	Korean
4720	AM		0315	Spanish
5016	AM		0040	German
5130	AM	5	0710	Spanish, reported from Australia
5230	AM	4	2225	German
5260	AM	4		English, also reported in German and heard in Europe
5282	AM	5		German, but heard in USA
5580	AM		1125	Spanish
5665	AM	5	0155	Spanish
5740	AM		0700	Spanish
5796	AM	5	1100	Spanish
5810	AM	4	0225	Spanish, also reported in English
5860	AM	5	0610	Spanish
5890	AM	5	0615	Spanish
5970	AM		1700	English, only reported in Europe
6277	SSB	5		Spanish
6726	USB	5	0035	Spanish or English
6770	USB	5	0600	Spanish
6785	USB	5	0730	Spanish
6795	AM	5	0615	Spanish
6810	AM	5	0720	Spanish
6820	AM	5	0640	Spanish
6900	USB	5		Spanish
7325	USB	5		Spanish, frequency used by VOA
7340	AM	5	0610	Spanish, also at 0700

kHz	Mode	Digits	Time	Remarks
7400	AM	5	0605	German, also heard with 5 digits and German at 2240
7525	AM	5	0700	
7565	AM	5		Spanish
7875	AM	5	0700	Spanish
7995	AM	5	0700	Spanish
8040	AM	5	0700	Spanish
8100	USB	5	0800	Spanish
8750	USB	4	0010	Spanish
8850	AM	5	0740	Spanish
8995	AM	4	0635	Spanish, sometimes uses USB
9075	AM		1445	Spanish
9117	AM	4	1215	English
9212	AM	5	0145	German
9230	AM	5	0600	Spanish
9400	AM	3	0800	Spanish, reported in Europe, but with music box ID in German
9412	AM	5	0520	Spanish
9417	USB	4	0700	Spanish, sometimes simply counts to 100
9443	AM	5	0610	Spanish
9475	AM	5	0820	Spanish, frequency used by Radio Havana
9495	AM	5	0800	Spanish
9845	AM	5	0230	in Czechoslovakian!! (one report)
9957	AM	3	1030	English, repeats same two groups
9975	AM	5	0600	Spanish, reported in Europe, but with USB and in German
9992	AM	5	0800	Spanish
10,250	AM	5	0110	Spanish
10,450	USB	5	0115	Spanish
10,740	USB	5		German
11,120	AM	5	0530	Spanish
11,417	AM	5	0510	Spanish, also at 0620
11,532	AM	4	1415	Spanish, reported at seven other times throughout day and night, much used
11,545.5	USB	5	2350	German
12,095	USB		1800	English
12,237	AM	5	0540	Spanish
12,405	AM	5	2310	English
13,531	USB	5	2100	English
14,970	AM	3	2230	English

13 FCC Backup Net

In the course of its monitoring operations, the Federal Communications Commission occasionally makes use of its HF backup network. With monitoring posts situated throughout continental United States, plus Hawaii and Puerto Rico, the FCC can triangulate for the location of illegally operating transmitters. This sort of information and other routine matters are handled by RTTY (monitored as 60/170). From time to time there is some CW traffic and a few stations are equipped for SSB.

kHz	Call(s)	Location	Notes
2110	KAA60	Grand Island, NE	
	KCA35	Belfast, ME	
	KCA38	Canandaigua, NY	
	KCA39	Ambrose, TX	
	KGA91	Laurel, MD	
	KGA93	Washington, DC	
	KIA84	Powder Springs, GA	
	KIA85	Ft. Lauderdale, FL	
	KKA59	Douglas, AZ	
	KKA60	Kingsville, TX	
	KKW38	Seattle, WA	
	KMB26	Santa Ana, CA	
	KOA56	Ferndale, WA	

kHz	Call(s)	Location	Notes
	KOT72	San Diego, CA	
	KQA62	Allegan, MI	
	KQG56	Chillicothe, OH	
	KUN70	Waipahu, HI	
	KWC41	Anchorage, AK	
	WWQ20	Isabella, PR	
2295	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KOA56, KQA62, KQG56, KUN70, KWC41, WWQ20		
4483	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KKW38, KMB26, KOA56, KOT72, KQA62, KQG56, KUN70, KWC41, WWQ20		
	KMB27	Livermore, CA	
	KOA55	Spokane, WA	
	KUT75	Imperial Beach, CA	
5133	KAA60	Grand Island, NE	RTTY, only
	KMB27	Livermore, CA	" "
5372.5	KCA35, KCA38, KGA91, KGA93, KIA84, KIA85, KQA62, KQG56, WWQ20		
7603.5	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KMB27, KOA55, KOA56, KQA62, KQG56, KUN70, KUT75, KWC41, WWQ20		
7790	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KKW38, KMB26, KMB27, KOA55, KOA56, KOT72, KQA62, KQG56, KUN70, KUT75, KWC41, WWQ20		
10,655	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KMB27, KOA55, KOA56, KQA62, KQG56, KUN70, KUT75, KWC41, WWQ20		
	KUA209	Honolulu, HI	this frequency, only
10,902	KAA60, KCA35, KCA38, KGA91, KGA93, KIA84, KIA85, KQA62, KQG56, KUT75, WWQ20		
13,830	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KMB27, KOA55, KOA56, KQA62, KQG56, KUN70, KUT75, KWC41, WWQ20		
13,942.5	KAA60, KCA39, KKA59, KKA60, KMB26, KMB27, KOA55, KUN70, KUT75, KWC41		
13,990	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KMB27, KOA55, KOA56, KQA62, KQG56, KUN70, KUT75, KWC41, WWQ20		
13,992	KCA35, KCA38, KGA91, KGA93, KIA84, KIA85, KQA62, KQG56, WWQ20		
19,230	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KMB27, KOA55, KOA56, KQA62, KQG56, KUN70, KWC41, WWQ20		
22,964	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KMB27, KOA55, KOA56, KQA62, KQG56, KUN70, KUT75, KWC41, WWQ20		
23,035	KAA60, KCA35, KCA38, KCA39, KGA91, KGA93, KIA84, KIA85, KKA59, KKA60, KMB26, KMB27, KOA55, KOA56, KQA62, KQG56, KUN70, KWC41, WWQ20		

14 Canadian LF Aero Beacons

Localized Canadian weather forecasts can be heard in the low frequency band over numerous non-directional aero beacons. These stations have three patterns of broadcasting: continuous weather and flight advisory bulletins (only from Abbotsford, Montreal, Toronto and Vancouver), or taped announcements at the hour +17 and +47 minutes (signified in the list below by the single asterisk), or +20 and +50 minutes after the hour (signified by the double asterisk). This is a list of stations most likely to be heard in southern Canada and the northern section of the USA. Power output from these stations average 400 watts.

kHz	Location	ID	kHz	Location	ID
201*	Baker Lake, NWT	BK	266*	Kapuskasing, ONT	YYU
206**	Yarmouth, NS	QI	272*	Muskoka, ONT	YQA
209**	Atikokan, ONT	IB	284*	The Pas, MAN	QD
212**	Saint John, NB	SJ	290*	Regina, SASK	QR
218**	Prince Rupert, BC	PR	290*	Penticton, BC	YF
218*	Red Lake, ONT	RL	305**	Churchill, MAN	YQ
221*	Grande Praire, ALTA	QU	317**	La Ronge, SASK	YVC
223**	Kamloops, BC	KA	326**	Princeton, BC	YDC
224*	Dauphin, MAN	DN	326*	Fredericton, NB	FC
224**	Moncton, NB	QM	326*	Kenora, ONT	QK
227**	Lake Eon, QUE	EO	326**	Wiarton, ONT	YVV
230**	Quebec, QUE	QB	326**	Fort St. John, BC	XJ
230**	Vermilion, ALTA	VG	332**	Thunder Bay, ONT	QT
233*	Brandon, MAN	BR	332*	Medicine Hat, ALTA	YXM
236**	Ottawa, ONT	OW	335**	Stirling, ONT	QC
236*	Gander, NFLD	QX	340*	Mont-Joli, QUE	YYY
239**	Footner Lake, ALTA	OJ	344*	Calgary, ALTA	YC
242**	Cranbrook, BC	XC	344	Abbotsford, BC	XX
242**	Port Hardy, BC	ZT	347**	Prince Albert, SASK	YPA
245**	Gore Bay, ONT	YZE	347*	Charlottetown, PEI	YG
248*	Halifax, NS	HZ	350**	Deer Lake, NFLD	DF
248**	Lethbridge, ALTA	YQL	353*	Windsor, ONT	QG
248	Montreal, QUE	UL	359*	Tofino, BC	YAZ
248**	Winnipeg, MAN	YWG	362*	Sudbury, ONT	YSB
250*	Flin Flon, MAN	FO	362**	Sherbrooke, QUE	SC
251**	Nanaimo, BC	CD	364**	Nitchequon, QUE	NI
254**	Fort Smith, NWT	SM	368	Toronto, ONT	L
257*	Earlton Jct., ONT	XR	378**	Roberval, QUE	RJ
257**	Goose, NFLD	YR	382*	London, ONT	XU
257**	Saskatoon, SASK	XE	388**	Fort McMurray, ALTA	YMM
260**	St. John's, NFLD	YT	390*	Stephenville, NFLD	JT
263*	Sydney, NS	QY	390**	Fort Chimo, QUE	VP
266	Vancouver, BC	VR	394**	North Bay, ONT	YYB
266*	Edmonton, ALTA	XD	400*	Comox, BC	QQ
			413*	Dryden Muni, ONT	HD

15 Department of Justice Backup Net

Although virtually all Federal agencies require extensive communications networks between their division offices, most traffic is handled by landline or microwave. Numbered among the Federal agencies with HF backup networks is the Department of Justice — particularly the Federal Bureau of Investigation and the Border Patrol. In this listing, the interlocking of frequencies and sites is particularly obvious around 4617.5 and 5912.5 kHz. Much of the traffic on these nets will be in RTTY. Most stations maintain CW facilities and many Border Patrol stations are using backup SSB equipment. Also note that KGE53 is used for communications with the Canadian authorities and KGE49 with the Brazilian Federal Police.

kHz	Call	Location	Assigned to
4616	KAD200	Washington, DC	Border Patrol
	KAD260	New Orleans, LA	"
	KAD262	Pensacola, FL	"
	KAD620	Houlton, ME	"

kHz	Call	Location	Assigned to
	KAD680	Buffalo, NY	Border Patrol
	KAK700	Detroit, MI	"
	KAK720	Grand Forks, ND	"
	KAK760	Spokane, WA	"
	KAK840	El Centro, CA	"
	KAK860	Tucson, AZ	"
	KAK880	El Paso, TX	"
	KAK920	Del Rio, TX	"
	KAK940	Laredo, TX	"
4617.5	KAD220	Miami, FL	Border Patrol
	KAK780	Blaine, WA	"
	KAK820	Chula Vista, CA	"
	KIJ52	Miami, FL	FBI
	KMG52	San Diego, CA	"
	KOH52	Seattle, WA	"
4992.5	KMG60	San Diego, CA	FBI
	KUR60	Honolulu, HI	"
5060	KEC71	Buffalo, NY	FBI
	KEC96	New York, NY	"
	KGE22	Washington, DC	"
	KGE26	Washington, DC	"
	KIJ22	Miami, FL	"
	KKI99	San Antonio, TX	"
	KKJ22	San Francisco, CA	"
	KKJ88	New Orleans, LA	"
	KKJ98	Oklahoma City, OK	"
	KMG22	San Diego, CA	"
	KMG26	San Diego, CA	"
	KOG71	Phoenix, AZ	"
	KOG93	Salt Lake City, UT	"
	KOH22	Seattle, WA	"
	KSD61	Chicago, IL	"
	KWX26	Anchorage, AK	"
	WWR26	San Juan, PR	"
5390	KEC90	New York, NY	FBI
	KGE22	Washington, DC	"
5911	KAD200, KAD260, KAD262, KAD620, KAD680, KAK720, KAK840, KAK880 KAK920		
	KAD660	Ogdensburg, NY	Border Patrol
	KAK850	Yuma, AZ	"
	KAK960	McAllen, TX	"
5911.5	KAD200 & KAK760		Border Patrol
	KAD600	New York, NY	"
	KAK980	Port Isabel, TX	"
5912.5	KAK780 & KAK820		Border Patrol
	KAD220	Miami, FL	"
	KGE53	Washington, DC	FBI
	KIJ53	Miami, FL	"
6954	KEC71, KEC96 & KGE22		FBI
	KGE51	Washington, DC	"
	KIG83	Charlotte, NC	"
7905	KEC71, KEC96, KGE22, KIJ22, KKI99, KKJ88, KKJ98, KMG22, KOG71, KOG93, KOH22, KSD61 (FBI)		
	KGE27	Washington, DC	FBI
	KMG27	San Diego, CA	"
	KUR27	Honolulu, HI	"
	WWR27	San Juan, PR	"
9185	KEC96, KGE22, KKJ88 &KSD61		FBI
9240	KEC71, KEC96, KGE22, KIJ22, KKI99, KKJ22, KKJ88, KKJ98, KMG22, KOG71, KOG93, KOH22, & KSD61(FBI)		
	KUR31	Honolulu, HI	FBI
	KWX31	Anchorage, AK	"
9313	KKI99, KKJ22, KMG22 & KOH22		FBI
	KMG36	San Diego, CA	"
	KOH36	Seattle, WA	"
	KWX36	Anchorage, AK	"
9433.5	KAD200, KAD260, KAD600, KAD620, KAD680, KAK960		
	KAK800	Livermore, CA	Border Patrol

kHz	Call	Location	Assigned to
	KAK900	Marfa, TX	"
9434	KAD260, KAD680 & KAK700		Border Patrol
9435	KAK700, KAK720, KAK760, KAK820 & KAK940		
	KAK740	Harve, MT	Border Patrol
10,500	KGE22, KKI99, KKJ88, KMG22,& KOG93		FBI
	KAG98	Omaha, NE	"
	KGE32	Washington, DC	"
	KKJ78	Little Rock, AR	"
	KMG32	San Diego, CA	"
	KOH32	Seattle, WA	"
	WWR32	San Juan, PR	"
10,915	KGE22, KIJ22, KKJ88 & KSD61		FBI
	KGE33	Washington, DC	"
	KMG33	San Diego, CA	"
	KWX33	Anchorage, AK	"
	WWR33	San Juan, PR	"
11,075	KGE49	Washington, DC	FBI
	KOH22	Seattle, WA	"
	KOH49	Seattle, WA	"
	KWX49	Anchorage, AK	"
11,490	KKI99, KOG93 & KOH22		FBI
	KIJ35	Miami, FL	"
	KMG35	San Diego, CA	"
	KUR35	Honolulu, HI	"
13,660	KGE22, KIJ22, KKJ88 & KMG22		FBI
	KIJ37	Miami, FL	"
	KMG37	San Diego, CA	"
14,460	KGE22, KIJ22, KKJ88, KKJ98 & KSD61		
	KGE38	Washington, DC	FBI
	KMG38	San Diego, CA	"
	KUR38	Honolulu, HI	"
14,495	KKI99, KMG22, KOG93 & KOH22		FBI
	KMG39	San Diego, CA	"
	KWX39	Anchorage, AK	"
14,533.5	KOH22	Seattle, WA	FBI
	KMG40	San Diego, CA	"
14,577.5	KAK820	Chula Vista, CA	Border Patrol
14,583.5	KAD200	Washington, DC	Border Patrol
	KAD260	New Orleans, LA	"
14,585	KAD220, KAD620, KAK720, KAK780, KAK880, KAK900, KAK940		Border Patrol
15,955	KGE22, KKI99, KKJ98, KOG93 & KOH22 (FBI)		
	KGE41	Washington, DC	FBI
	KOH41	Seattle, WA	"
	WWR41	San Juan, PR	"
16,376	KMG42	San Diego, CA	FBI
	KWX42	Anchorage, AK	"
17,405	KMG44	San Diego, CA	FBI
	KOH44	Seattle, WA	"
17,602.5	KMG56	San Diego, CA	FBI
	KUR56	Honolulu, HI	"
	KWX56	Anchorage, AK	"
	WWR56	San Juan, PR	"
18,172.5	KGE45	Washington, DC	FBI
18,667.5	KGE55	Washington, DC	FBI
19,132.5	KUR54	Honolulu, HI	FBI
23,675	KGE47	Washington, DC	FBI
	KWX47	Anchorage, AK	"
23,875	KMG48	San Diego, CA	FBI
	WWR48	San Juan, PR	"

PLACE NAMES: It is to be expected that there will be some disagreement with our spelling of place names. Although we have used the latest reference works, many place names are not readily translated into "Americanized English." For example, our "Jidda, Saudi Arabia" is the old city of "Juddah," although in many British texts this city would be spelled "Jiddah" while the ITU Frequency Lists spell it "Jeddah." Teheran and Tehran appear interchangably in various references, although the latter spelling is now preferred.

16 Fixed Service Stations Monitored

The International Telecommunications Union has defined the Fixed Service as "a radiocommunications service between specified fixed points." This is a broad definition and encompasses radio stations broadcasting messages in the aeronautical, coast, press, weather and military services—as well as—stations engaged in strictly point-to-point communications for governmental or commercial purposes. In this major listing, some liberties have been taken to ease your identification of certain Fixed Service stations. So-called "voice mirror" or endlessly repeated tape recordings are identified by the "#" sign immediately after the Mode abbreviation. CW, FSK (RTTY), LSB, USB and ISB (independent sideband) modes are shown wherever possible. Virtually all of these stations were monitored in 1975. The asterisk indicates that no correlation between the monitored station and the ITU lists could be found. Note that Coast Stations operating voice mirrors are shown in this list and should not be confused with the Coast List of CW stations starting on page 22. Additional Fixed Service stations appear in the RTTY Press and FAX/RTTY Weather Lists.

kHz	Call	Location	Mode	Operator
3899	IRA48	Rome, Italy	LSB#/FSK	Italcable
4020	OVG	Frederikshaven, Denmark	CW/FSK	PTT
4337	SPH2	Gdynia, Poland	CW	PTT
4483	5LF4	Monrovia, Liberia	LSB	LTS
4577	TUP43	Abidjan, Ivory Coast	USB	Intelci
4642.5	CMA7	Havana, Cuba	CW	IRTS
5060	ZIK20	Belize City, Belize	ISB	C&W
5063	SOF20	Warsaw, Poland	ISB	PTT
5260	TUP52	Abidjan, Ivory Coast	USB#	Intelci
5330	YKW45	Damascus, Syria	USB#	PTE
5388	ZIK22	Belize City, Belize	ISB	C&W
5390	HET2	Schwarzenburg, Switzerland	ISB	ST&TA
5783	5TY	Nouakchott, Mauritania	USB#/FSK	Ofipostel
5813	XTA58	Ouagadougou, Upper Volta	LSB#	FCR
5859	DMV3	Königs Wusterhausen, G.D.R.	CW	PTT
5910	5VH49	Lome, Togo	USB#	FCR
6795	FPG79	Paris, France	FSK/USB	FTS
	6VA77	Dakar, Senegal	FSK/USB	FCR
6802	FPG80	Paris, France	FSK/USB	FTS
	FZE68	Fort de France, Martinique	ISB	FCR
6816	FXC35	Cayenne, French Guiana	USB#/FSK	FCR
6818	CWD68	Cerrito, Uruguay	CW	PTT
6841.5	*	Papeete, Tahiti	USB	Ofipostel
6885	NAW11	Guantanamo Bay, Cuba	ISB	AACR
6896	CLN48	Havana, Cuba	FSK/SSB	IRTS
6915	LHB	Jeloey, Norway	CW	
6957	NAW25	Guantanamo Bay, Cuba	ISB	AACR
6980	SOG39	Warsaw, Poland	FSK	PTT
7305	SOH23	Warsaw, Poland	USB	PTT
7343.1	SOH33	Warsaw, Poland	ISB	PTT
7360	HET3	Schwarzenburg, Switzerland	ISB	ST&TA
7370	FTH37	Paris, France	LSB#	FTS
7387.5	LDX2	Svalband, Norway	CW/FSK	
7395	SOH53	Warsaw, Poland	ISB	PTT
7407	CNR32	Rabat, Morocco	ISB	PTT
7430	NAW26	Guantanamo Bay, Cuba	ISB	AACR
7455	CML7	Havana, Cuba	LSB/FSK	IRTS
7477	*	Rio de Janeiro, Brazil	USB#	Embratel
7482	ZUD209*	Olifantsfontein, S. Africa	ISB	ZUD
7555	DMV34*	Königs Wusterhausen, G.D.R.	CW	PTT
7560	6VK27	Dakar, Senegal	USB#/FSK	FCR
7562	SOH25	Warsaw, Poland	FSK	PTT
7570	TUP75	Abidjan, Ivory Coast	LSB#	Intelci
7580	HLB63	Seoul, S. Korea	ISB	
7587.5	6VY41	Dakar, Senegal	RTTY	aero
7595	ZUD23	Olifantsfontein, S. Africa	USB	ZUD
7600	FZR76	St. Denis, Reunion	USB	FCR
7628	WFI97	New York, NY	FSK	IT&T
7635	FZO76	Papeete, Tahiti	CW/SSB	Ofipostel
7640	FZL76	Noumea, New Caledonia	USB	FTS
7690	LDX	Svalbard, Norway	CW/FSK	

kHz	Call	Location	Mode	Operator
7735	PDL27	Kootwijk, Netherlands	USB#/FSK	PTT
7775	HLQ30	Seoul, S. Korea	ISB	KITO
7820	ZLZ5	Himatangi, New Zealand	SSB#	NZPO
7865	SOH58	Warsaw, Poland	ISB	PTT
7900	ZIK34	Belize City, Belize	ISB	C&W
7935	CML23	Havana, Cuba	USB	IRTS
7975	CVK79	Pajas Blancas, Uruguay	CW/FSK	PTT
7977.5	WEB27	New York, NY	ISB	AT&T
7982	*	Sydney, Australia	USB#	AORTS
7985	PMA8	Bandjung, Indonesia	CW/SSB	PTT
8020	A9M35	Bahrain	USB#/FSK	C&W
8037	IRF40	Rome, Italy	SSB	Italcable
8058	YKW123	Damascus, Syria	USB#	PTE
8080	ZYK	Belem, Brazil	FSK	Embratel
8100	6VK29	Dakar, Senegal	USB/FSK	FCR
8105	ZFD36	St. George, Bermuda	ISB	C&W
8130	HZP831	Jidda, Saudi Arabia	USB#	PTT
8132	DFH23	Bonames, G.F.R.	CW/ISB	PTT
8148	OVG8	Frederikshaven, Denmark	FSK	PTT
8165	5YD7	Nairobi, Kenya	RTTY	aero
8180	7UF18	Algiers, Algeria	USB#/ISB	PTT
8188	FPI8	Paris, France	USB#/ISB	FTS
	CNR23	Rabat, Morocco	LSB	PTT
8738.4	5BA	Cyprus Radio	USB#	coast
8751.2	FFL42	St. Lys Radio	USB#	coast
8754.7	LPP54	Migiones Radio	LSB#	coast
8755.8	WOM	Miami Radio	USB#	coast
8757.6	VIS	Sydney Radio	USB#	coast
	SVN4	Athens Radio	USB#	coast
	SPC	Gdynia Radio	USB#	coast
	WOO	Ocean Gate Radio	USB#	coast
8757.7	LPL24	General Pacheco Radio	USB#	coast
8760.8	JBO	Tokyo Radio	USB#	coast
8764	OHG2	Helsinki Radio	USB#	coast
	IAR48	Rome Radio	USB#	coast
8770.4	ZLW5	Wellington Radio	USB#	coast
8783.2	WMI	Lorain Radio	USB	coast
	WLC	Rogers City Radio	USB	coast
8784.6	ICB	Genoa Radio	USB#	coast
8786.4	DHS	Rügen Radio	USB#	coast
	SPC	Gydnia Radio	USB#	coast
8789.6	OSU41	Oostende Radio	USB#	coast
8802.4	VIS	Sydney Radio	USB#	coast
8802.5	SPC*	Gydnia Radio	USB#	coast
8805.6	OSU42	Oostende Radio	USB#	coast
	DHS	Rügen Radio	USB#	coast
	YUB	Rijeka Radio	USB#	coast
9045.5	TJF90	Douala, Cameroon	USB#	Intelcam
9048	ZUD73	Olifantsfontein, S. Africa	ISB	ZUD
9053	FZO90	Papeete, Tahiti	USB#	Ofipostel
9062	DBV	Königs Wusterhausen, G.D.R.	FSK	PTT
9081.5	CLN244	Havana, Cuba	FSK	IRTS
9087	SOJ30	Warsaw, Poland	CW/FSK	PTT
9110	RDZ77	Moscow, USSR	CS/SSB	PTT
9117.5	FYJ3	Paris, France	USB#	FTS
9130	*	Rio de Janeiro, Brazil	USB#	Embratel
	TUP91	Abidjan, Ivory Coast	USB#	Intelci
9132.5	HPI	Panama City, Panama	ISB	TRTC
9137.5	GOR29	Ongar, England	USB#	BPO
9150	CUA42	Lisbon, Portugal	USB#	CPRM
9164	SOJ21	Warsaw, Poland	FSK	PTT
	CXL23	Pajas Blancas, Uruguay	USB#	PTT
9167	LDN2	Jeloey, Norway	ISB	
9182.5	FPJ8	Lyon, France	USB#	FTS
9217	TTL61	N'Djamena, Chad	USB#	FCR
9220	FZR92	St. Denis, Reunion	USB#	FTS
9229	9KT27	Kuwait	USB#	PTT

kHz	Call	Location	Mode	Operator
9255	LDN	Jeloey, Norway	ISB	
9263.5	4QO42	Colombo, Sri Lanka	USB#/FSK	OCS
9281.8	TYP4	Cotonou, Benin (Dahomey)	USB#	FCR
9290	ZUD74	Olifantsfontein, S. Africa	USB#	ZUD
9300	CEA4C	Santiago, Chile	FSK/SSB	Entel
9305	TLZ93	Bangui, Central African Rep.	LSB#	FCR
	ZUD208	Olifantsfontein, S. Africa	USB#	ZUD
9307.5	OCI52	Godthaab, Greenland	USB#	PTT
9330	VLN20	Doonside, Australia	USB#	AORTS
9330.5	OXO79	Skamlebaek, Denmark	USB#	PTT
9331	ZEN42	Cape d'Aguilar, Hong Kong	LSB	C&W
9396	6YR42	Kingston, Jamaica	USB	Jamintel
9777.5	NAW30	Guantanamo Bay, Cuba	ISB	AACR
9850	HLB67	Seoul, S. Korea	ISB	KITO
9867	HZP986	Jidda, Saudi Arabia	USB	PTTA
9875	TFJ99	Douala, Cameroon	LSB#	Intelcam
9876	ZLZ26	Himatangi, New Zealand	USB	NZPO
9893	SOJ48	Warsaw, Poland	ISB	PTT
9895	5LF9	Monrovia, Liberia	USB#	FCR
9900	ZLZ29	Himatangi, New Zealand	LSB	NZPO
9917	6VK49	Dakar, Senegal	USB#	Telesenegal
9928	6YR43	Kingston, Jamaica	ISB	Jamintel
9937	4QO44	Colombo, Sri Lanka	USB#	OCS
9940	WWK39	Lolita, PR	USB	AACR
9980	LQR20	Hurlingham, Argentina	USB	ENT
9990.5	CUA52	Lisbon, Portugal	CW	CPRM
10,101.6	WWL20	Lolita, PR	LSB#	AACR
10,105	RKA79	Moscow, USSR	CW/FSK	PTT
10,106	WWL60	Lolita, PR	LSB#	AACR
10,120	RGI24	Moscow, USSR	CW/FSK	PTT
10,125	OLG3	Prague, Czechoslovakia	RTTY	PTT
10,134	BBC46*	Nanking, P.R.C.	ISB	PTT
10,135	ZBI46	Ascension Island	FSK/USB	C&W
	IRH31	Rome, Italy	SSB	Italcable
10,155	FPK5	Paris, France	USB#	FTS
10,175	CUA53	Lisbon, Portugal	USB	CPRM
10,185	7UH18	Algeirs, Algeria	USB#	PTT
10,195	FPK9	Paris, France	USB#	FTS
10,230	FTK23	Paris, France	USB#	FTS
10,237	STK	Khartoum, Sudan	RTTY	aero
10,240	OXR20	Skamlebaek, Denmark	USB#	PTT
10,250	LQR6	Hurlingham, Argentina	USB#	ENT
10,278	SOK22	Warsaw, Poland	FSK	PTT
10,286.5	ZIK46	Belize City, Belize	FSK	C&W
10,302.5	PCK30	Kootwijk, Netherlands	USB#	PTT
10,305	4XQ30	Tel Aviv, Israel	USB#	PTT
10,325.5	BBD25*	,P.R.C.	ISB	PTT
10,338	HEO4	Schwarzenburg, Switzerland	ISB	PTT
10,340.5	*	Asuncion, Paraguay	USB#	Antelco
10,346	FTK43	Lyon, France	USB#/FSK	FTS
10,350	LQA5	Mt. Grande, Argentina	LSB#	ENT
	ZUD75	Olifantsfontein, S. Africa	ISB	ZUD
10,385	ZFD48	St. George, Bermuda	USB#	C&W
10,390	LQT24	Hurlingham, Argentina	USB#	ENT
10,405	HZQ40	Jidda, Saudi Arabia	USB#	PTTA
	HEK33	Schwarzenburg, Switzerland	LSB#	PTT
10,413	CNO57	Casablanca, Morocco	RTTY	PTT
10,415	ZPG4	Asuncion, Paraguay	USB	Antelco
10,430	5LF10	Monrovia, Liberia	USB#	FCR
10,433	HBE90	Berne, Switzerland	CW/FSK	PTT
10,488	4XA40	Tel Aviv, Israel	USB#	PTT
10,495	CPMZ	La Paz, Bolivia	RTTY	aero
10,510	CGB5	Drummondville, Canada	USB#	COTC
10,515	WED40	New York, NY	USB#	AT&T
10,520	CGC6	Drummondville, Canada	AM#	COTC
10,528	8RB47	Georgetown, Guyana	USB#	C&W
	IRH35	Rome, Italy	USB#	Italcable

kHz	Call	Location	Mode	Operator
10,560	FTK60	Paris, France,	CW/ISB	FTS
10,563	FPK56	Paris, France	CW	press
10,565	XDD229	Mexico City, Mexico	USB#	PTT
	ZUD76	Olifantsfontein, S. Africa	ISB	ZUD
10,570	*	Beirut, Lebanon	USB#	OGERO
10,605	OXR40	Skamlebaek, Denmark	LSB#	PTT
10,640	PVX	Rio de Janeiro, Brazil	USB#	Embratel
10,650	GIQ30	Dorchester, England	USB#	BPO
10,660	ZDK48	Gilbraltar	USB#	C&W
10,694	TZB910	Bamako, Mali	LSB#	TIM
10,700	ZIK48	Belize City, Belize	USB	C&W
10,705	*	Rio de Janeiro, Brazil	USB#	Embratel
10,707	KUQ20	American Samoa	USB	
10,710	TXZ*	Djibouti, Afars & Issas	USB#	FTS
	IRH27	Rome, Italy	USB#/FSK	Italcable
10,715	IRH37	Rome, Italy	USB#	Italcable
10,730	5YF48	Nairobi, Kenya	USB#	EAETC
10,735	PCL50	Kootwijk, Netherlands	USB#	PTT
10,750	CLN294	Havana, Cuba	USB#	IRTS
10,762	YJK20	Port Vila, New Hebrides	RTTY	
10,765	FZJ7	Djibouti, Afars & Issas	USB#	FTS
10,770	RTT42	Moscow, USSR	USB#	PTT
	CXL24	Pajas Blancas, Uruguay	SSB	PTT
10,780	YTK	Belgrade, Yugoslavia	USB#	PTT
10,784	CML30	Havana, Cuba	USB#	IRTS
10,801	5VH308	Lome, Togo	LSB#	FCR
10,803	HZY*	Dharan, Saudi Arabia	USB#	AAOC
10,806	ETJ80	Addis Ababa, Ethiopia	USB#	ETS
10,815	IRH58	Rome, Italy	USB#	Italcable
10,835	ETJ84	Addis Ababa, Ethiopia	USB#	ETS
	TUP8	Abidjan, Ivory Coast	USB#	Intelci
10,840	IRH38	Rome, Italy	USB#	Italcable
10,846	5UR8	Niamey, Niger	LSB#	FCR
10,855	TTA410	N'Djamena, Chad	LSB#	FCR
	KIC32	Miami, FL	CW	aero
10,870	ETJ87	Addis Ababa, Ethiopia	USB#	ETS
10,895	TYK8	Cotonou, Benin (Dahomey)	USB#	FCR
10,905	FZS9	St. Denis, Reunion	LSB	FTS
10,947	CVN	Pajas Blancas, Uruguay	CW/FSK	PTT
10,953	IRH29	Rome, Italy	SSB	Italcable
10,960	HDA66	Quito, Ecuador	ISB	Entel
10.985	RCB53	Moscow, USSR	USB#	PTT
11,000	DKF2	Königs Wusterhausen, G.D.R.	USB#	PTT
11,004	CNR39	Rabat, Morocco	USB#	PTT
11,005	FTL	Paris, France	USB#	FTS
11,034	FTL3	Paris, France	USB#	FTS
11,039	DDJ9	Bonames, G.F.R.	CW	
11,040	A9M50	Bahrain	USB#	C&W
11,057	*	Nouakchott, Mauritania	USB#	Ofipostel
11,070	CLN320	Havana, Cuba	RTTY	IRTS
11,070.5	*	Rio de Janeiro, Brazil	USB#	Embratel
11,095	XTA9	Ouagadougou, Upper Volta	USB#	FCR
11,100	ZLX24	Himatangi, New Zealand	USB	NZPO
11,130	NAW34	Guantanamo Bay, Cuba	USB	AACR
11,135	HLB40	Seoul, S. Korea	ISB	KITO
11,160	TLA410	Bangui, Central African Rep.	USB#/FSK	FCR
11,410	CLN324	Havana, Cuba	USB#	IRTS
11,410	EAQ410	Aranjuez, Spain	RTTY	
11,415	OXR61	Skamlebaek, Denmark	USB#	PTT
11,416	HZQ141	Jidda, Saudi Arabia	USB#	PTTA
11,427	ZPG14	Asuncion, Paraguay	CW	Antelco
11,440	PLC	Jakarta, Indonesia	CW	PTT
	TAE6	Ankara, Turkey	USB#	PTT
11,458	OXI58	Godthaab, Greenland	USB	PTT
11,477.5	TNH4*	Cotonou, Benin (Dahomey)	USB#	FCR
11,480	SUA254	Cairo, Egypt	USB#	PTT
11,485	SZU35	Athens, Greece	USB#	HTO

kHz	Call	Location	Mode	Operator
11,485	*	Kigali, Rwanda	LSB	
11,495	9KT282	Kuwait	USB#	PTT
11,497	SOL64	Warsaw, Poland	FSK	PTT
11,530	9GN24	Accra, Ghana	USB#	ETS
11,545	LDP	Svalbard, Norway	CW/FSK	
11,560	CMA29	Havana, Cuba	AM/CW	IRTS
11,590	ZLX25	Himatangi, New Zealand	USB#	NZPO
11,594	HZQ159	Jidda, Saudi Arabia	ISB	PTTA
11,595	6YR52	Kingston, Jamaica	USB#	Jamintel
11,608	TTZ47	N'Djamena, Chad	LSB#	FCR
11,620	5WB	Apia, Western Samoa	USB	
11,650	TLZ6	Bangui, Central African Rep.	LSB#	FCR
11,660	*	Papeete, Tahiti	USB#	Ofipostel
11,980	CPP50D	La Paz, Bolivia	FSK	
11,985	*	Rio de Janeiro, Brazil	USB#	Embratel
12,020	FZF20	Fort de France, Martinique	USB#	FTS
12,075	VKS	Doonside, Australia	USB#	AORTS
12,085	CUA61	Lisbon, Portugal	USB	CPRM
12,090	*	Moscow, USSR	USB#	PTT
12,125	TNH21	Brazzaville, Congo Dem. Rep.	USB#/ISB	FCR
12,130	RGD26	Moscow, USSR	USB#	PTT
12,160	RGD25	Moscow, USSR	USB#	PTT
12,165	RKB78	Moscow, USSR	USB#	PTT
12,175	TFJ	Reykjavik, Iceland	AM#/SSB#	PTT
12,185	SOM21	Warsaw, Poland	CW/SSB	PTT
12,210	PPQ6	Rio de Janeiro, Brazil	AM/FSK	Embratel
12,240	FZS22	St. Denis, Reunion	USB#	FTS
12,250	FTM25	Paris, France	LSB#	FTS
	RHA41	Moscow, USSR	CW/SSB	PTT
12,255	TRZ21	Libreville, Gabon	USB#	PTT
12,276.5	9VC56	Singapore	USB#	C&W
12,295	PZP	Zanderij, Surinam	RTTY	aero
12,329	OVG12	Frederikshaven, Denmark	CW/FSK	PTT
13,114.5	UMV*	Murmansk Radio	USB#	coast
13,133.3	6VA	Dakar Radio	USB#	coast
13,133.5	FFL	St. Lys Radio	USB#	coast
13,137	WOM	Fort Lauderdale Radio	USB	coast
13,140.5	SPC6	Gdynia Radio	USB#	coast
13,147.5	VIS48*	Sydney Radio	USB#	coast
	ICB	Genoa Radio	USB#	coast
13,158.2	WOO	Ocean Gate Radio	USB#	coast
13,161.5	ICB	Genoa Radio	USB#	coast
	FFL37*	St. Lys Radio	USB#	coast
13,172.2	LPD25	General Pacheco Radio	USB#	coast
13,187.4	SVN5*	Athens Radio	USB#	coast
13,371.2	CWO4	Cerrito, Uruguay	CW/FSK	PTT
13,375	DKW5	Nauen, G.D.R.	USB#/FSK	PTT
13,390	ZLX27	Himatangi, New Zealand	USB#	NZPO
	HEK44	Schwarzenburg, Switzerland	ISB	PTT
	9JA5	Lusaka, Zaire	LSB	ZPO
13,394	IRK33	Rome, Italy	USB#	Italcable
13,405	HDA68	Quito, Ecuador	ISB	Entel
13,410	YIE35	Baghdad, Iraq	USB#	PTT
	HLB23	Seoul, S. Korea	ISB	KITO
13,420	ETM41*	Addis Ababa, Ethiopia	FSK/SSB	ETS
	CUA69	Lisbon, Portugal	USB#	CPRM
13,425	VLN54	Doonside, Australia	LSB#	AORTS
13,457	7OB61	Hiswa, South Yemen	USB#	C&W
13,460	LRB60	Gral Pacheco, Argentina	CW	
13,474	CLA223*	Havana, Cuba	USB#	IRTS
13,490	RCG77	Moscow, USSR	CW/FSK	PTT
13,498	SON24	Warsaw, Poland	CW/FSK	PTT
13,505	ZFD62	St. Georges, Bermuda	LSB/FSK	C&W
13,535	TYK35	Cotonou, Benin (Dahomey)	USB#	FCR
13,550	PCK43	Kootwijk, Netherlands	USB#	PTT
13,557.5	ELA13	Monrovia, Liberia	LSB#	LTA
13,580	*	Ankara, Turkey	USB#	PTT

kHz	Call	Location	Mode	Operator
13,604.5	OXI64	Godthaab, Greenland	USB#	PTT
13,605	ZPG36	Asuncion, Paraguay	USB	Antelco
13,612	WEE73	New York, NY	USB#	AT&T
13,615	CWK4	Montevideo, Uruguay	USB#	PTT
13,616	SON26	Warsaw, Poland	FSK/ISB	PTT
13,640	VLN	Doonside, Australia	SSB	AORTS
13,665	PCK63	Kootwijk, Netherlands	USB#	PTT
13,697.5	WEK83	New York, NY	LSB#	RCAGC
13,715	FYN71	Paris, France	AM#	FTS
13,750	NAW17	Guantanamo Bay, Cuba	ISB	AACR
	WWL73	Lolita, PR	LSB	AACR
13,760	RZE	Moscow, USSR	USB#/FSK	PTT
13,765	NAW36*	Guantanamo Bay, Cuba	USB#	AACR
13,793	SON37	Warsaw, Poland	USB#	PTT
13,818.5	KUQ20	American Samoa	FSK	
13,824	ZFD64	St. George, Bermuda	USB#	C&W
	7OB64	Hiswa, South Yemen	USB#	C&W
13,834	FZF38	Fort de France, Martinique	LSB#	FTS
13,844	ETM84	Addis Ababa, Ethiopia	USB#	ETS
13,860	LRB62	Gral Pacheco, Argentina	USB#	CIBA
13,879	ZEO61	Cape d'Aguilar, Hong Kong	LSB	C&W
13,900	HZQ39	Jidda, Saudi Arabia	USB#	PTTA
13,906	CLN413	Havana, Cuba	USB#/FSK	IRTS
13,910	PPS74*	Rio de Janeiro, Brazil	CW	Embratel
13,922	PWB*	Belem, Brazil	CW	Embratel
13,935	ELA23	Monrovia, Liberia	USB	LTS
13,942.5	A9M58	Bahrein	USB#	C&W
13,945	ZUD45	Olifantsfontein, S. Africa	USB#	ZUD
13,950	JYA63	Amman, Jordan	USB#	Telcorp
13,951	DBZ24*	Königs Wusterhausen, G.D.R.	CW	PTT
13,955	9GN25	Accra, Ghana	USB#	ETS
13,964	CNR50	Rabat, Morocco	LSB	PTT
14,367.5	5TN29	Nouakchott, Mauritania	LSB#	Ofipostel
14,400	YIF66*	Baghdad, Iraq	LSB#	PTT
14,420	9KT321	Kuwait	USB#	PTT
14,430	*	Doonside, Australia	SSB	AORTS
14,445	LHG	Jeloey, Norway	CW/FSK	
14,447.5	OXI66	Godthaab, Greenland	USB#	PTT
14,475	ZPG44	Asuncion, Paraguay	CW	Antelco
14,476	5BC67	Nicosia, Cyprus	SSB	CRMS
14,505	CML38	Havana, Cuba	USB#	IRTS
	HEF33	Berne, Switzerland	USB	PTT
14,554.5	FZM45	Noumea, New Caledonia	LSB	FTS
14,566	CLN455*	Havana, Cuba	USB#/FSK	IRTS
14,575	CXL26	Montevideo, Uruguay	USB#	PTT
14,580	ZPG45	Asuncion, Paraguay	USB	Antelco
14,605	*	Rio de Janeiro, Brazil	USB#	Embratel
14,623	A9M68	Bahrain	USB#	C&W
	7NV68	Hiswa, South Yemen	USB#	C&W
14,648	*	Port Moresby, Papua New Guinea	USB#	
14,650	LQR4	Hurlingham, Argentina	FSK/SSB	ENT
14,670	SUA278	Cairo, Egypt	LSB#	PTT
14,700	ZUD30	Pretoria, S. Africa	SSB	
14,736	IRL27	Rome, Italy	SSB	Italcable
14,747.5	TTZ47	N'Djamena, Chad	LSB#	FCR
14,765	ZBI67	Ascension Island	SSB	C&W
14,777	5VH347	Lome, Togo	USB#	FCR
14,790	LQR25	Hurlingham, Argentina	ISB	ENT
14,792.5	WMC94	Oakland, CA	USB#	RCAGC
14,825	*	Moscow, USSR	LSB#	PTT
14,833.5	OXR54	Skamlebaek, Denmark	LSB	PTT
14,834.5	FZS48	St. Denis, Reunion	LSB#	FTS
14,840	PZA78	Paramaribo, Surinam	USB#	PTT
14,865	9HC68	Malta	USB#	Telemalta
14,890	ETN89	Addis Ababa, Ethiopia	USB#	ETS
14,901.5	OXI68	Godthaab, Greenland	AM#	PTT
14,904.5	OXI68	Godthaab, Greenland	USB#	PTT

kHz	Call	Location	Mode	Operator
14,914	SOO29	Warsaw, Poland	ISB	PTT
14,921	XTA49	Ouagadougou, Upper Volta	LSB#	FCR
14,975	DKE5	Nauen, G.D.R.	USB#/CW	PTT
14,985	EHY26	Madrid, Spain	USB#	CTNE
15,485	LRB29*	Buenos Aires, Argentina	USB#	ENT
	*	Rio de Janeiro, Brazil	USB#	Embratel
15,495	FTP49	Paris, France	LSB#	FTS
15,501	*	Papeete, Tahiti	LSB#	Ofipostel
15,528	BAG45*	Peking, P.R.C.	CW	PTT
15,530	TLZ55	Bangui, Central African Rep.	USB#	FCR
15,564	SOP55	Warsaw, Poland	CW	press
15,565	7UN56	Algiers, Algeria	LSB#	PTT
15,585	TLO79	Bangui, Central African Rep.	USB#	FCR
15,610	HDA78	Quito, Ecuador	AM/SSB	Entelco
15,614	5UR56	Niamey, Niger	LSB#	FCR
15,615	LQD22	Mt. Grande, Argentina	ISB	ENT
15,640	TLA315	Bangui, Central African Rep.	LSB#	FCR
15,644	OXI70	Godthaab, Greenland	USB#	PTT
15,655	GFH32	Cape d'Aguilar, Hong Kong	RTTY	C&W
15,724	ISX57	Rome, Italy	RTTY	Italcable
15,735	6VK815	Dakar, Senegal	LSB#	Telesenegal
15,745	TNH58	Brazzaville, Congo	LSB#	OTIC
15,785	CXL27	Montevideo, Uruguay	ISB	PTT
15,786.2	4XA85	Tel Aviv, Israel	USB#	PTT
15,805	FTP80	Paris, France	LSB#	FTS
15,810	LQR26	Hurlingham, Argentina	ISB	ENT
	CLA41*	Havana, Cuba	USB#	IRTS
15,820	NAW38*	Guantanamo Bay, Cuba	ISB	AACR
15,832	TJF58	Douala, Cameroon	LSB#	FCR
15,835	HET5	Schwarzenburg, Switzerland	ISB	PTT
15,841	9LL73	Freetown, Sierra Leone	LSB#	SLET
15,845	HEF9	Schwarzenburg, Switzerland	ISB	PTT
15,865	CEC2B	Santiago, Chile	ISB	Entelco
15,873	FLE75	Paris, France	SSB	FTS
15,882	KUQ20D	American Samoa	SSB	
15,920	9GN24	Accra, Ghana	SSB	ETS
15,930	8PX74	Barbados	CW/SSB	C&W
15,931	5UA	Niamey, Niger	LSB#/CW	aero
15,950	ZUD78	Olifantsfontein, S. Africa	ISB	ZUD
15,980	*	Peking, P.R.C.	USB	PTT
16,047.5	CXL28	Montevideo, Uruguay	USB#	PTT
16,050	7UP5	Algiers, Algeria	USB	PTT
	CLA204	Havana, Cuba	USB#	IRTS
16,055	5UR60	Niamey, Niger	LSB#	FCR
16,085	HEF55	Berne, Switzerland	USB#	PTT
16,096	CLN52	Havana, Cuba	USB#/FSK	IRTS
16,105	TAE7	Ankara, Turkey	USB#	PTT
16,125	ZBI76	Ascension Island	ISB	C&W
	XTA61	Ouagadougou, Upper Volta	LSB#	FCR
16,137	CML47	Havana, Cuba	FSK	IRTS
16,165	7UP16	Algiers, Algeria	USB#	PTT
	TLA315*	Bangui, Central African Rep.	LSB#	FCR
16,200	5WB25	Apia, Western Samoa	USB	GPO
16,215	RCF47	Moscow, USSR	USB#	PTT
	ZUD79	Olifantsfontein, S. Africa	USB#	ZUD
16,242	YTG9	Belgrade, Yugoslavia	ISB	PTT
16,245	FKP82	Djibouti, Afars & Issas	CW	aero
	5YD	Nairobi, Kenya	CW	aero
16,270	WED26	New York, NY	AM	AT&T
16,280	RKD41	Moscow, USSR	USB#	PTT
16,290	OAG2	Lima, Peru	RTTY	aero
16,294	5LF16	Monrovia, Liberia	LSB#	FCR
16,320	CGB2	Drummondville, Canada	USB#	COTC
16,325	ODO32	Beirut, Lebanon	USB#	OGERO
16,326	CLN529	Havana, Cuba	USB#/FSK	IRTS
16,335	FZS63	St. Denis, Reunion	USB	FTS
16,360	RKI	Moscow, USSR	USB#	PTT

kHz	Call	Location	Mode	Operator
16,380	CLN531	Havana, Cuba	USB#	IRTS
	FZP63	Papeete, Tahiti	ISB	Ofipostel
16,386	TUP63	Abidjan, Ivory Coast	LSB#	FCR
16,397	YKW107	Damascus, Syria	USB	PTE
16,417	DMV26	Königs Wusterhausen, G.D.R.	FSK	PTT
16,425	TZB216	Bamako, Mali	LSB#	TIM
16,454	8RB78	Georgetown, Guyana	USB#	C&W
16,565	KHT	Cedar Rapids, IA	USB	Collins
17,265.5	VIS	Sydney Radio	USB	coast
17,279.5	FFL82	St. Lys Radio	USB	coast
17,290.2	LPD26	General Pacheco Radio	USB	coast
17,293.5	IAR	Rome Radio	USB#	coast
17,304	KMI	Dixon Radio	USB	coast
17,307.5	DAJ	Norddeich Radio	USB#	coast
17,308	*	Leningrad Radio	USB#	coast
17,311	OSU63	Oostende Radio	USB#	coast
17,314.5	OSU61	Oostende Radio	USB#	coast
	VIS	Sydney Radio	USB	coast
17,321.5	EHY	Pozuelo Radio	USB#	coast
	WOO	Ocean Gate Radio	USB	coast
17,349.5	4XO	Haifa Radio	USB	coast
17,386	TJF73	Douala, Cameroon	LSB#	Intelcam
17,391.5	KUQ20	American Samoa	ISB	
17,393	CLN562	Havana, Cuba	USB#	IRTS
17,410	VKS50	Doonside, Australia	CW	
17,412	TYF73	Cotonou, Benin (Dahomey)	LSB#	FCR
17,415	4QO82	Colombo, Sri Lanka	USB#	OCS
	HEK66	Schwarzenburg, Switzerland	ISB	PTT
17,420	*	Kootwijk, Netherlands	USB#	PTT
17,440	9UB82	Bujumbura, Burundi	USB#	PTT
17,443	9VC83	Singapore	USB	C&W
17,470	ZPJ74	Asuncion, Paraguay	CW	Entelco
17,488	OXR37	Skamlebaek, Denmark	LSB	PTT
17,495	ETQ50	Addis Ababa, Ethiopia	LSB#	ETS
17,498.5	*	Helsinki, Finland	LSB#	PTT
17,500	ELA17	Monrovia, Liberia	CW/FSK	FCR
17,515	TYK75	Cotonou, Benin (Dahomey)	LSB#	FCR
17,524.5	*	Rio de Janeiro, Brazil	USB#	Embratel
17,530	LQS21	Hurlingham, Argentina	USB#	ENT
17,545	BBD52	Chenju, Taiwan	ISB	CGRA
17,564	ETQ56	Addis Ababa, Ethiopia	LSB#	ETS
17,575	FZF76	Fort de France, Martinique	FSK/ISB	FTS
17,595	FTR59	Lyon, France	LSB#	FTS
17,600	OCB51	Lima, Peru	RTTY	Entel
17,620	DKR	Nauen, G.D.R.	USB#	PTT
17,640	VLN42	Doonside, Australia	ISB	AORTS
17,655	HEK77	Schwarzenburg, Switzerland	ISB	PTT
17,676	PZB48	Paramaribo, Surinam	USB#	LTT
17,680	SOQ36	Warsaw, Poland	ISB	PTT
18,052	SDQ61	Varberg, Sweden	SSB	STAD
18,054	YOW	Bucharest, Romania	RTTY	
18,074	5RY81	Tananarive, Malagasy	LSB#	STIMAD
18,085	HZQ808	Jidda, Saudi Arabia	USB#	PTTA
18,090	XTA80	Ouagadougou, Upper Volta	LSB#	FCR
18,095	ZUD80	Olifantsfontein, S. Africa	USB#	ZUD
18,100	BCQ93	Taipei, Taiwan	USB#	CGRA
18,113.5	*	Paris, France	LSB#	FTS
18,135	DFS23	Bonames, G.F.R.	AM	PTT
18,150	CVM8	Pajas Blancas, Uruguay	FSK/ISB	PTT
18,165	*	Rio de Janeiro, Brazil	LSB#	Embratel
18,170	RIF33	Moscow, USSR	USB#	PTT
18,175	TNH81	Brazzaville, Congo	LSB#	OTIC
18,190	CXL31	Montevideo, Uruguay	LSB	PTT
18,195	*	Buenos Aires, Argentina	LSB	ENT
18,205	9KT345	Kuwait	USB#	PTT
18,265	TNH82	Brazzaville, Congo	LSB#	OTIC
18,295	TZA218	Bamako, Mali	LSB#	FCR

kHz	Call	Location	Mode	Operator
18,344	9LL87	Freetown, Sierra Leone	LSB#	SLET
18,359	CQK55	Sao Tomé	CW/ISB	CTT
18,365	HZQ836	Jidda, Saudi Arabia	USB#	PTTA
18,380	CPP3B	La Paz, Bolivia	ISB	
18,400	LQS24	Hurlingham, Argentina	ISB	ENT
	PCL48	Kootwijk, Netherlands	USB#	PTT
18,405	HLB37	Seoul, S. Korea	USB#	KITO
18,408	CNR31	Rabat, Morocco	LSB#	PTT
18,430	TNH84	Brazzaville, Congo	LSB#	OTIC
18,435	TNH85	Brazzaville, Congo	LSB#	OTIC
18,436.5	TUP84	Abidjan, Ivory Coast	USB#	STIC
18,455	4QO86	Colombo, Sri Lanka	USB#	OCS
18,460	ELA18	Monrovia, Liberia	CW/ISB	FCR
18,462.5	FZM84	Noumea, New Caledonia	LSB	FTS
18,467	ORI28	Brussels, Belgium	LSB#	PTT
18,480	HBO58	Berne, Switzerland	USB#	PTT
18,512	ZPZ26	Acunsion, Paraguay	USB	Antelco
18,533	YKW108	Damascus, Syria	LSB#	PTE
18,545	YTB2	Belgrade, Yugoslavia	USB	PTT
18,550	PPZ2	Rio de Janeiro, Brazil	LSB#	Embratel
18,560	EPJ	Tehran, Iran	USB#	PTT
18,585	BCF*	Shanghai, P.R.C.	USB#	PTT
18,612.5	PCM78	Kootwijk, Netherlands	USB	PTT
18,624	VSH88	Banjul, Gambia	USB#	C&W
18,630	IRQ26	Rome, Italy	USB#	Italcable
18,640	YAK	Kabul, Afghanistan	ISB	PTT
18,690	ZEH	Salisbury, Rhodesia	LSB	PTT
18,705	CXL32	Montevideo, Uruguay	ISB	PTT
18,733.5	ORI38	Brussels, Belgium	USB#	PTT
18,740	LRB87	Gral Pacheco, Argentina	CW	ENT
18,742	5OU89	Lagos, Nigeria	SSB	
18,785	HZQ878	Jidda, Saudi Arabia	USB#	PTTA
18,788	PPN9	Rio de Janeiro, Brazil	ISB	Embratel
18,790	ORI48	Brussels, Belgium	USB#	PTT
18,800	ZUD46	Pretoria, S. Africa	ISB	
18,825	ETR83	Addis Ababa, Ethiopia	FSK	ETS
18,845	TLZ88	Bangui, Central African Rep.	LSB#	FCR
18,855	TRZ88	Libreville, Gabon	LSB#	FCR
18,880	5YF87	Nairobi, Kenya	USB#	EAETC
18,890	FTS99	Lyon, France	LSB#	FTS
18,978	5TN30	Nouakchott, Mauritania	LSB#	Ofipostel
19,025	GLL39	Ongar, England	USB#	BPO
19,035	7OB90	Hiswa, South Yemen	USB#	C&W
19,070	CRN2	Lourenco Marques, Mozambique	LSB/FSK	
19,083	7US8	Algiers, Algeria	LSB#	PTT
19,108	HLA79	Seoul, S. Korea	ISB	KITO
19,115	5OU91	Lagos, Nigeria	CW	
19,140	LQT25*	Hurlingham, Argentina	ISB	ENT
19,167	*	Paris, France	USB#	FTS
19,170	*	Rangoon, Burma	USB#	PTT
19,178	IRR31	Rome, Italy	USB	Italcable
19,196	5UR91	Niamey, Niger	LSB#	FCR
19,210	9LL91	Freetown, Sierra Leone	LSB#	SLET
19,245	CWO9	Cerrito, Uruguay	CW	PTT
19,250	5RY92	Tananarive, Malagasy	LSB#	STIMAD
19,290	TTZ92	N'Djamena, Chad	LSB#	FCR
19,310	ZBI91	Ascension Island	ISB	C&W
19,325	FZS93	St. Denis, Reunion	LSB#	FTS
19,328	5YF91	Nairobi, Kenya	USB	EAETC
19,352.5	*	Papeete, Tahiti	LSB#	Ofipostel
19,365	*	Conakry, Guinea	LSB#	
19,400	6OF26	Mogadiscio, Somalia	LSB#	PTT
19,417.5	FZP94	Papeete, Tahiti	FSK	Ofipostel
19,430	9RE394	Lubumbashi, Zaire	ISB	PTZ
19,460	ETS46	Addis Ababa, Ethiopia	USB#/FSK	ETS
19,465	ZBI92	Ascension Island	FSK/ISB	C&W
19,490	ATT69	Poona, India	USB#	OTS

kHz	Call	Location	Mode	Operator
19,512.5	FZF93	Fort de France, Martinique	ISB	FCR
19,525	CXL33	Montevideo, Uruguay	ISB	PTT
19,545	FZJ45	Djibouti, Afars & Issas	LSB#	TFAI
19,554	HEO6	Schwarzenburg, Switzerland	USB#	PTT
19,585	HEO8	Schwarzenburg, Switzerland	USB#	PTT
19,592	CLN625	Havana, Cuba	SSB	IRTS
19,605	HDA86	Quito, Ecuador	ISB	ENT
19,610	HET7	Schwarzenburg, Switzerland	USB#	PTT
19,615	JBT79	Tokyo, Japan	LSB#	KDD
19,630	5YF92	Nairobi, Kenya	USB	EAETC
19,630.5	JBT89	Tokyo, Japan	LSB#	KDD
19,650	LQS26	Hurlingham, Argentina	FSK/ISB	ENT
19,665	5LF19	Monrovia, Liberia	LSB#	FCR
19,684	IRR46	Rome, Italy	USB#	Italcable
19,708	CLA234*	Havana, Cuba	USB#	IRTS
19,710	PCK59	Kootwijk, Netherlands	USB#	PTT
19,775	HEO9	Schwarzenburg, Switzerland	USB#	PTT
19,780	ELA19	Monrovia, Liberia	FSK/ISB	FCR
19,810	FFT81	Le Vernet, France	ISB	FTS
19,870	ZBI94	Ascension Island	ISB	C&W
19,900	HLA94	Seoul, S. Korea	SSB	KITO
19,910	9GS22	Accra, Ghana	USB	ETS
19,950	*	Cairo, Egypt	USB#	PTT
19,958	XXF91	Macao	CW/FSK	CPRM
20,020	CXL34	Montevideo, Uruguay	ISB	PTT
20,035	HEK7	Schwarzenburg, Switzerland	USB#	PTT
20,068	SOV20	Warsaw, Poland	FSK/ISB	PTT
20,082.5	ETT82*	Addis Ababa, Ethiopia	ISB	ETS
20,087	TJF	Douala, Cameroon	LSB#	FCR
20,120	9JA75	Lusaka, Zambia	LSB#	PTT
20,155	HEF77	Schwarzenburg, Switzerland	ISB	PTT
20,206	3CA67	Banapa, Equatorial Guinea	CW/FSK	
20,230	CXL35	Montevideo, Uruguay	ISB	PTT
20,265	SZF25	Athens, Greece	USB#	HTO
20,327.5	6VK221	Dakar, Senegal	USB	Telesenegal
20,338	FZZ433*	Moroni, Comores	LSB#	FTS
20,342	ZUD83	Olifantsfontein, S. Africa	ISB	ZUD
20,370	5VH203*	Lome, Togo	LSB#	FCR
20,440	ZPP4	Asuncion, Paraguay	ISB	Entelco
20,505	SOV25	Warsaw, Poland	ISB	PTT
20,590	HEF4	Schwarzenburg, Switzerland	ISB	PTT
20,605	PZB49	Paramaribo, Surinam	ISB	LTT
20,630	LHK	Jeloey, Norway	CW/FSK	
20,715	5OU99	Lagos, Nigeria	LSB#	NET
20,728	IRS27	Rome, Italy	USB#	Italcable
20,760	LQT36	Hurlingham, Argentina	USB#	ENT
20,805	9KT381	Kuwait	USB#	PTT
20,810	LQT37	Hurlingham, Argentina	USB#	ENT
20,835	XYN45	Rangoon, Burma	USB#	PTT
20,850	IRS38	Rome, Italy	USB#	Italcable
	ZUD84	Olifantsfontein, S. Africa	ISB	ZUD
20,878.5	KUQ20F	American Samoa	ISB	
20,880	CEA2B	Santiago, Chile	ISB	Entelco
20,885	*	Douala, Cameroon	LSB#/FSK	FCR
20,935	ASA4	Karachi, Pakistan	USB#	PTT
20,990	5RZ9	Tananarive, Malagasy	USB#	STIMAD
21,815	CXL37	Montevideo, Uruguay	ISB	PTT
21,830	HET66	Schwarzenburg, Switzerland	ISB	PTT
21,842.5	FTV84	Paris, France	LSB#	FTS

THOSE "OFFICIAL" LISTS: A variety of sources were used in cross-checking and correlation of the content of the CONFIDENTIAL FREQUENCY LIST. The principal source was the International Telecommunication Union, Geneva, Switzerland. The ITU publishes extensive frequency lists and callbooks. A limited stock of some ITU publications is maintained by GILFER Associates, P.O. Box 239, Park Ridge, NJ 07656. . . . . THOSE "SIDEBAND" FREQUENCIES: The crowded conditions in the HF spectrum have necessitated the introduction of "sideband" vs. "center" or "carrier" frequencies. Unfortunately, the distinction is not universally accepted—either by Governmental agencies or some of our monitors. A deviation of ± 1.5 kHz from the suppressed carrier frequency is likely to be found when demodulating certain SSB signals.

17 VOLMET & Aero Weather

The experienced listener to the stations in the HF spectrum has little difficulty collecting "tidbits and trivia"—like the weather and flight conditions in Agana, or Calgary, or Amsterdam. Anyone can tune in these routine AM weather broadcasts by picking and choosing the time and frequency. Known as VOLMET (a contraction of a French language phrase meaning flying weather), the stations below operate around the clock (except where noted), usually twice each hour, broadcasting short descriptions of weather conditions at major airports or cities. A listener to Prague, for example, would soon know the weather not only in Prague, but Vienna, Berlin, Budapest, Warsaw and Moscow, as well. This list also includes a few of the better heard VOLMET stations in the USSR (only English transmissions are shown—there are about 15 more VOLMET stations in the USSR broadcasting in the Russian language) and some military SSB transmissions.

kHz	Location	Minutes Start	Language	Remarks
2889	Shannon Aeradio	00 - 30	EE	Used nighttime, only
2980	Oakland Radio	05 - 35	EE	
	Tokyo Radio	10 - 40	EE	
	Prague Radio	15 - 45	EE	
	Honolulu Radio	20 - 50	EE	
	Anchorage Radio	25 - 55	EE	
	Paris Radio	25 - 55	FF/EE	
2985	Ben Gurion Radio	05 - 35	EE	Used nighttime, only
3001	New York Radio	00 - 30	EE	
	Tehran Radio	05 - 35	EE	
	Bahrain Radio	10 - 40	EE	
	Beirut Radio	15 - 45	EE	
	Cairo Radio	20 - 50	EE	
	Gander Aeradio	20 - 50	EE	
	Istanbul Radio	25 - 55	EE	
3270.5	Lisbon Radio	45	EE	
3432	Sydney Radio	00 - 30	EE	
	Calcutta Radio	05 - 35	EE	Used nighttime, only
	Bangkok Radio	10 - 40	EE	Used nighttime, only
	Karachi Radio	15 - 45	EE	Used nighttime, only
	Singapore Radio	20 - 50	EE	Used nighttime, only
	Bombay Radio	25 - 55	EE	Used nighttime, only
3495	Brazzaville Radio	15 - 45	FF	
	Tananarive Radio	25 - 55	FF	
3814	Bucharest Radio	05		
3822.5	Rome Radio	05 - 45	EE	
4656	Moscow, USSR	05 - 35	RR	
5175	Khartoum Radio	35	EE	0400/1000/1600/2200, only
5505	Brazzaville Radio	15 - 45	FF	
5519	Oakland Radio	05 - 35	EE	
	Tokyo Radio	10 - 40	EE	
	Hong Kong Radio	15 - 45	EE	
	Honolulu Radio	20 - 50	EE	
	Anchorage Radio	25 - 55	EE	
5533	Shannon Aeradio	00 - 30	EE	
5557	Paris Radio	25 - 55	FF/EE	
	Prague Radio	15 - 45	EE	
5559	Baghdad Radio	00 - 30	EE	
5561	Tehran Radio	05 - 35	EE	
	Bahrain Radio	10 - 40	EE	
	Beirut Radio	15 - 45	EE	
	Cairo Radio	20 - 50	EE	
	Istanbul Radio	25 - 55	EE	
5562	Gander Aeradio	20 - 50	EE	
5575	Ben Gurion Radio	05 - 35	EE	
5652	New York Radio	00 - 30	EE	
5882	Bucharest Radio	05 - 10	EE	
6561	Riga, USSR	09 - 39	RR	
6575	Algiers Radio	10 - 40	FF/EE	
	Las Palmas Radio	10 - 40	SS/EE	(Canary Islands)
	Dakar Aeradio	15 - 45	FF	
6617	Brazzaville Radio	15 - 45	FF	
6638	Moscow, USSR	05 - 35	RR	

kHz	Location	Minutes Start	Language	Remarks
6648	Amman Radio	05 - 35	EE	
6672	Moscow, USSR	05 - 35	RR	CW, only
6680	Sydney Radio	00 - 30	EE	
	Calcutta Radio	05 - 35	EE	
	Dacca Radio	05 - 35	EE	unconfirmed
	Bangkok Radio	10 - 40	EE	
	Karachi Radio	15 - 45	EE	
	Singapore Radio	20 - 50	EE	
	Bombay Radio	25 - 55	EE	
7610	Rome Radio	05 - 45	EE	
7715	Tegucigalpa Radio	15 - 50	EE	
7862.5	Lisbon Radio	45	EE	
8819	Cairo Radio	05 - 35	EE	
	Cairo Radio	20 - 50	EE	
8828.5	Baghdad Radio	00 - 30	EE	
	Bahrain Radio	10 - 40	EE	Used daytime, only
8833	Shannon Aeradio	00 - 30	EE	
8854	Beirut Radio	15 - 45	EE	
	Istanbul Radio	25 - 55	EE	
8859	Cairo Radio	20 - 50	EE	
8862.5	Tananarive Radio	25 - 55	FF	
8868	New York Radio	00 - 30	EE	
	Gander Aeradio	20 - 50	EE	
8896	Algiers Radio	00 - 30	FF/EE	
	Las Palmas Radio	10 - 40	SS/EE	(Canary Islands)
8896.5	Dakar Aeradio	15 - 45	FF	
8903	Oakland Radio	05 - 35	EE	
	Tokyo Radio	10 - 40	EE	
	Hong Kong Radio	15 - 45	EE	
	Honolulu Radio	20 - 50	EE	
	Anchorage Radio	25 - 55	EE	
8931	Athens Radio	00 - 30	EE	
8940	Riga, USSR	09 - 39	RR	
8985	RAF, England	20 - 40	EE	(SSB, military)
	RAF, Cyprus	25 - 35	EE	(SSB, military)
8990	RAF, England	15-- 30	EE	(SSB, military)
8996	Lahr Military, G.F.R.	16 - 46	EE	(SSB, military)
9000	Interflug, Berlin	15	GG	
9990	Khartoum Radio	35	EE	0400/1000/1600/2200, only
10,017	Sydney Radio	00 - 30	EE	
	Calcutta Radio	05 - 35	EE	
	Bangkok Radio	10 - 40	EE	
	Karachi Radio	15 - 45	EE	
	Singapore Radio	20 - 50	EE	
	Bombay Radio	25 - 55	EE	
10,073	Brazzaville Radio	15 - 45	FF	
	Tananarive Radio	25 - 55	FF	
11,198	Moscow, USSR	05 - 35	RR	
11,200	RAF, England	10 - 50	EE	(SSB, military)
11,237	RAF, Masirah	35	EE	(SSB, military)
11,266	Münster Radio, G.F.R.	10	EE	(SSB, military)
11,279	Algiers Radio	00 - 30	FF/EE	
	Las Palmas Radio	10 - 40	SS/EE	(Canary Islands)
	Dakar Aeradio	15 - 45	FF	
11,319	Buenos Aires Radio	00 - 15	SS	
11,328	Tananarive Radio	25 - 55	FF	
11,391	Prague Radio	15 - 45	EE	
	Paris Radio	25 - 55	FF	
13,205	RAF, England	20 - 35	EE	(SSB, military)
13,231	Lahr Military, G.F.R.	16 - 46	EE	(SSB, military)
13,246	RAF, England	10	EE	(SSB, military)
13,272	New York Radio	00 - 30	EE	
	Gander Aeradio	20 - 50	EE	
13,312	Shannon Aeradio	00 - 30	EE	
13,344	Oakland Radio	05 - 35	EE	
	Tokyo Radio	10 - 40	EE	
	Hong Kong Radio	15 - 45	EE	

kHz.	Location	Minutes Start	Language	Remarks
	Honolulu Radio	20 - 50	EE	
	Anchorage Radio	25 - 55	EE	
13,354.5	Tananarive Radio	25 - 55	FF	
13,392	Ben Gurion Radio	05 - 35	EE	Used daytime, only
13,812	Khartoum Radio	35	EE	0400/1000/1600/2200, only
15,035	RCAF, Trenton	30	EE	(SSB, military)
	RCAF, St. Johns	45	EE	(SSB, military)
	RCAF, Halifax	50	EE	(SSB, military)
16,081.5	Beirut Radio	15 - 45	EE	
18,006	Münster Radio, G.F.R.	10	EE	(SSB, military)
18,012	Lahr Military, G.F.R.	16 - 46	EE	(SSB, military)

18 LF Broadcasting Stations

Broadcasting stations operating between 150 and 300 kHz represent a minor fraction of the total number of AM broadcasters in Europe and Asia. If the number is small, the same cannot be said for the output wattages—frequently up to 2,000,000 watts (40 times the "high power" AM station in the USA). There is some uncertainty regarding the Soviet Union broadcasters, but in the absence of information to the contrary, it may be assumed that all of the listed stations are in daily operation.

kHz	Meters	Location	Power (kW)
151	1987	Mainflingen, G.F.R.	50
155	1935	Brasov, Rumania	1.2 MegW
		Khabarosk, USSR	1.0 MegW
		Moscow, USSR	50
		Tronsö, Norway	10
164	1829	Allouis, France	2.0 MegW
173	1734	Lvov + Moscow, USSR	1.0 MegW
		Minsk, USSR	1.0 MegW
182	1648	Ankara, Turkey	1.2 MegW
		Lulea, Sweden	10
		Saarlouis, G.F.R.	700
		Tchita, USSR	150
185	1622	Oranienburg, G.D.R.	150
191	1571	Caltanissetta, Italy	10
		Birobidjan, USSR	1.0 MegW
		Motala, Sweden	600
200	1500	Ankara, Turkey	200
		Droitwich, England	400
		Leningrad, USSR	150
209	1453	Azilal, Morocco	400
		Eidar + Reykjavik, Iceland	120
		Kiev, USSR	500
218	1376	Baku, USSR	150
		Monte Carlo, Monaco	1.4 MegW
		Novosibirsk, USSR	50
		Oslo, Norway	200
227	1322	Konstantynow, Poland	2.0 MegW
		Ulan Bator, Mongolia	150
236	1271	Jinglinster, Luxembourg	2.0 MegW
		Leningrad, USSR	1.0 MegW
		Magadan, USSR	1.0 MegW
245	1224	Erzurum, Turkey	100
		Kalundborg, Denmark	150
		Vladivostok, USSR	1.0 MegW
251	1195	Tipasa, Algeria	1.5 MegW
254	1181	Dushanbe, USSR	300
		Erevan, USSR	150
		Lahti, Finland	200
263	1141	Magdeburg, G.D.R.	200
		Irkutsk, USSR	1.0 MegW
		Moscow, USSR	2.0 MegW
272	1103	Novosibirsk, USSR	150
		Uherske, Czechoslovakia	1.5 MegW
281	1068	Minsk, USSR	100

19 Broadcast Feeders

To make their "voice" heard is the prime objective of shortwave broadcasting—free world, third world or communist. Many major broadcasters have erected relay transmitting sites thousands of miles from their homeland—just to make sure that the target audience doesn't escape. Up-to-the-minute programming is piped to these sites by either satellite relay or HF feeders. This is a listing of the non-communist feeders—a list of communist feeders is on page 35. The transmitting site, mode and operator have been itemized—callsigns are not used. Some frequencies were being changed as this book was going to press and all known new channels have been included, as well as, channels that may be closing down. Also listed are RTTY channels used for relaying press and routine business matters. Not listed are some of the frequencies used for special program relays, such as, WFL25 on 15,730 with RFE material, or CUA77 on 15,957 with Emissora Nacional (Portugal) programs. An asterisk in the "Location" column indicates that no correlation can be found in the frequency lists and callbooks of the ITU.

kHz	Location	Mode	Operator
3265	Holzkirchen, G.F.R.	SSB	Radio Free Europe
3636	Ismaning, G.F.R.	RTTY/SSB	VoA
4469	Daventry, England	SSB	BBC
4475	Holzkirchen, G.F.R.	SSB	Radio Free Europe
4555	Delano/Dixon, CA	SSB	VoA
4565	Delano/Dixon, CA	SSB	VoA
4785	Holzkirchen, G.F.R.	CW/RTTY	Radio Free Europe
5125	Holzkirchen, G.F.R.	SSB	Radio Free Europe
5195	, G.F.R.*	SSB	Deutsche Welle
5275	Ismaning, G.F.R.	CW/RTTY	VoA
5295	Holzkirchen, G.F.R.	SSB	Radio Free Europe
5390	Riyad, Saudi Arabia*	SSB	Saudi Arabian
5450	Ismaning, G.F.R.	RTTY	VoA
5740	Holzkirchen, G.F.R.	RTTY	Radio Free Europe
5790	Holzkirchen, G.F.R.	SSB	Radio Free Europe
5845	Holzkirchen, G.F.R.	SSB	Radio Free Europe
5890	Holzkirchen, G.F.R.	SSB	Radio Free Europe
5902.5	Delano/Dixon, CA	SSB	VoA
5932.5	Delano/Dixon, CA	SSB	VoA
5945	Holzkirchen, G.F.R.	SSB	Radio Free Europe
6840	Daventry, England	SSB	BBC
6873	Greenville, NC	SSB	VoA
6873.5	Ismaning, G.F.R.	SSB	VoA
6902.5	Ismaning, G.F.R.	RTTY	VoA
6970	Holzkirchen, G.F.R.	SSB	Radio Free Europe
6995	Holzkirchen, G.F.R.	SSB	Radio Free Europe
7332.5	Ismaning, G.F.R.	RTTY/SSB	VoA
7419	Daventry, England	SSB	BBC
7440	Holzkirchen, G.F.R.	SSB	Radio Free Europe
7521	Daventry, England	SSB	BBC
7584	Daventry, England	SSB	BBC
7622.5	Ismaning, G.F.R.	RTTY	VoA
7651	Greenville, NC	SSB	VoA
7688	Daventry, England	SSB	BBC
7725	Ismaning, G.F.R.	SSB	VoA
7745	Kootwijk, Netherlands	USB	Radio Nederland
7750	Daventry, England	SSB	BBC (may not be in use)
7770	Bethany, OH/Greenville, NC	SSB	VoA
7825	Holzkirchen, G.F.R.	RTTY	Radio Free Europe
9090	Holzkirchen, G.F.R.	SSB	Radio Free Europe
9100	Daventry, England	SSB	BBC (may not be in use)
9145	Holzkirchen, G.F.R.	SSB	Radio Free Europe
9170	Holzkirchen, G.F.R.	SSB	Radio Free Europe
9250	Holzkirchen, G.F.R.	SSB	Radio Free Europe
9445	Sackville, Canada*	SSB	Radio Canada
9450	Melbourne, Australia	LSB	Radio Australia
9855	Ismaning, G.F.R.	RTTY	VoA
9856	Daventry, England	SSB	BBC (may not be in use)
10,190	Holzkirchen, G.F.R.	SSB	Radio Free Europe
10,210	Holzkirchen, G.F.R.	RTTY	Radio Free Europe

kHz	Location	Mode	Operator
10,235	Bethany, OH/Greenville, NC	LSB	VoA
10,308	Kootwijk, Netherlands	SSB	Radio Nederland
10,315	Holzkirchen, G.F.R.	SSB	Radio Free Europe
10,410	Kavala/Rhodes, Greece	RTTY	VoA
10,420	Holzkirchen, G.F.R.	SSB	Radio Free Europe
10,454	Greenville, NC	SSB	VoA
10,520	Ismaning, G.F.R.	RTTY	VoA
10,552.5	Ismaning, G.F.R.	SSB	VoA
10,760	Ismaning, G.F.R.	RTTY	VoA
	Holzkirchen, G.F.R.	SSB	Radio Free Europe
10,860	Holzkirchen, G.F.R.	SSB	Radio Free Europe
10,880	Careysburg, Liberia	RTTY	VoA
	Kaval/Rhodes, Greece	RTTY	VoA
11,067	Daventry, England	SSB	BBC
11,456	Daventry, England	SSB	BBC
11,575	Holzkirchen, G.F.R.	SSB	Radio Free Europe
11,675	Holzkirchen, G.F.R.	SSB	Radio Free Europe
12,127	Daventry, England	SSB	BBC (may not be in use)
12,179	Daventry, England	SSB	BBC
12,190	Melbourne, Australia	USB	Radio Australia
12,210	Bethany, OH/Greenville, NC	SSB	VoA
12,223.5	Ismaning, G.F.R.	RTTY	VoA
12,246.5	Holzkirchen, G.F.R.	SSB	Radio Free Europe
13,491.5	Greenville, NC	SSB	VoA
13,690	Holzkirchen, G.F.R.	SSB	Radio Free Europe
13,702.5	Ismaning, G.F.R.	RTTY	VoA
13,729	Kootwijk, Netherlands	SSB	Radio Nederland
13,855	Kavala/Rhodes, Greece	RTTY	VoA
13,860	Delano/Dixon, CA	SSB	VoA
13,875	, Portugal	SSB	Emissora Nacional
13,997.5	Ismaning, G.F.R.	SSB	VoA
14,365	Kavala/Rhodes, Greece	SSB	VoA (may not be in use)
14,398	Delano/Dixon, CA	RTTY/LSB	VoA
14,526	Delano/Dixon, CA	RTTY/SSB	VoA (may not be in use)
	Bethany, OH/Greenville, CA	RTTY/SSB	VoA
14,712.5	Holzkirchen, G.F.R.	SSB	Radio Free Europe
14,800	Munich, G.F.R.	SSB	VoA
14,985	Kavala/Rhodes, Greece	RTTY	VoA
15,520	Ismaning, G.F.R.	RTTY/SSB	VoA
15,752	Bethany, OH/Greenville, NC	SSB	VoA
15,775	Holzkirchen, G.F.R.	SSB	Radio Free Europe
15,800	Munich, G.F.R.	SSB	VoA
15,849	Daventry, England	SSB	BBC
15,875	Monrovia, Liberia	SSB	VoA
	Ismaning, G.F.R.	RTTY	VoA
15,885	Holzkirchen, G.F.R.	SSB	Radio Free Europe
15,910	Daventry, England	SSB	BBC
15,920	Careysburg, Liberia	RTTY	VoA
16,065	Holzkirchen, G.F.R.	SSB	Radio Free Europe
16,330	Careysburg, Liberia	RTTY	VoA
16,430	Bethany, OH/Greenville, NC	SSB	VoA
17,445	Holzkirchen, G.F.R.	SSB	Radio Free Europe
17,612.5	Holzkirchen, G.F.R.	SSB	Radio Free Europe
17,645	Daventry, England	SSB	BBC (may not be in use)
18,157	Delan/Dixon, CA	RTTY	VoA
18,172	Daventry, England	SSB	BBC
18,210	Careysburg, Liberia	RTTY	VoA
18,265	Kavala/Rhodes, Greece	SSB	VoA
18,275	Ismaning, G.F.R.	RTTY/SSB	VoA
	Tangier, Morocco	RTTY/SSB	VoA
	Greenville, NC	LSB	VoA
18,515	Ismaning, G.F.R.	RTTY	VoA
	Kavala/Rhodes, Greece	SSB	VoA
	Monrovia, Liberia	SSB	VoA
18,619	Kootwijk, Netherlands	SSB	Radio Nederland
18,760	Lyndhurst, Australia	USB	Radio Asutralia
18,782.5	Bethany, OH/Greenville, NC	SSB	VoA

kHz	Location	Mode	Operator
19,155	Munich, G.F.R.	SSB	VoA
19,261.5	Bethany, OH/Greenville, NC	RTTY/SSB	VoA (may not be in use)
19,480	Delano/Dixon, CA	RTTY/SSB	VoA (may not be in use)
19,532.5	Bethany, OH/Greenville, NC	SSB	VoA
19,710	Kootwijk, Netherlands	SSB	Radio Nederland
19,915	Tangier, Morocco	RTTY	VoA
20,060	Holzkirchen, G.F.R.	SSB	Radio Free Europe
	Ismaning, G.F.R.	RTTY	VoA
	Bethany, OH/Greenville, NC	SSB	VoA
22,930	Daventry, England	SSB	BBC

20 Time Signals & Standard Frequencies

Highly accurate time signals are radiated by two distinctly different types of radio stations. One group can be classified "Standard Frequency Stations"—the other can be loosely called "Coast Stations." The first group are assigned carrier frequencies useful for receiver calibration and laboratory measurement (2500, 4500, 5000, etc. kHz). The second group operate mostly in the maritime bands and appear to be broadcasting time signals to ships at sea. There are a few unlisted stations occasionally broadcasting time signals that fit neither category. An example is YVTO, Caracas, Venezuela broadcasting time signals on 6100 kHz in the middle of the 49-meter International Broadcasting Band. The Fixed Service stations in Montevideo, Uruguay are also known to broadcast time signals rather than use a voice mirror (see page 49). For the convenience of the reader, the time signals below have been divided into the two above-mentioned lists.

STANDARD FREQUENCIES

kHz	Call	Location	Schedule
2500	FFH	St. Assise, France	0800-1625, Monday to Friday
	JJY	Tokyo, Japan	continuous, 24 hours
	MSF	Teddington, England	0000-0005, 0010-0015, 0020-0025, 0030-0035, 0040-0045 & 0050-0055 minutes after each hour, continuous
	OMA	Liblice, Czechoslovakia	0001-0040 & 0045-0001, continuous, 24 hours
	RCH	Tashkent, USSR	0015-0020, 0025-0030, 0035-0040 & 0045-0050 after each hour from 1100 to 0400, September through March Also, 1600 to 0200, April through August
	WWV	Fort Collins, CO	continuous, 24 hours
	WWVH	Kauai, HI	continuous, 24 hours
	ZLFS	Lower Hutt, New Zealand	0100-0400, every Wednesday only
	ZUO	Pretoria, South Africa	1800-0400, daily
3330	CHU	Ottawa, Canada	continuous, 24 hours
4500	VNG	Lyndhurst, Australia	0945-2130, daily
4996	RTA	Novosibirsk, USSR	continuous, 24 hours
5000	BPM		one minute transmissions at 1329, 1359, 1429, 1459, 1529 & 1559, daily
	BPV	Shanghai, P.R.C.	0000-0345, 0400-0545, 0600-0945 & 1000-1200, daily
	BSF	Taipei, Taiwan	0000-0005, 0010-0015, 0020-0025, 0030-0035, 0040-0045 & 0050-0055 minutes after each hour from 0100 to 0900
	IAM	Rome, Italy	0730-0830 & 1030-1130, weekdays only
	IBF	Turin, Italy	0745-0800, 0945-1000, 1045-1100, 1145-1200, 1245-1300, 1345-1400, 1445-1500, 1545-1600, 1645-1700, 1745-1800 & 1845-1900, daily
	JJY	Tokyo, Japan	continuous, 24 hours
	LOL	Buenos Aires, Argentina	1100-1200, 1400-1500, 1700-1800, 2000-2100 & 2300-2400 (0000), only

kHz	Call	Location	Schedule
	MSF	Teddington, England	0000-0005, 0010-0015, 0020-0025, 0030-0035, 0040-0045 & 0050-0055 minutes after each hour, continuous
	RAT	Moscow, USSR	0010-0021, 0030-0041 & 0050-0001 minutes after each hour, continuous
	RCH	Tashkent, USSR	0015-0020, 0025-0030, 0035-0040 & 0045-0050 minutes after each hour from 0530 to 1030, September through March. Also 0230-1530, April through August
	RIM	Tashkent, USSR	0015-0020, 0025-0030, 0035-0040 & 0045-0050 minutes after each hour from 1400-0400, September through March. Also, 1600-0200, April through August
	WWV	Fort Collins, CO	continuous, 24 hours
	WWVH	Kauai, HI	continuous, 24 hours
	ZUO	Pretoria, South Africa	continuous, 24 hours
5004	RID	Irkutsk, USSR	continuous, 24 hours
7335	CHU	Ottawa, Canada	continuous, 24 hours
7500	VNG	Lyndhurst, Australia	2245-2230 (next day) daily
8000	JG2AE	Tokyo, Japan	2059-1059, daily
9996	RTA	Novosibirsk, USSR	continuous, 24 hours
10,000	ATA	New Delhi, India	0530-1130, Monday to Saturday
	BPM		one minute transmissions at 1329, 1359, 1429, 1459, 1529 & 1559, daily
	BPV	Shanghai, P.R.C.	0000-0345, 0400-0545, 0600-0945 & 1000-1200, daily
	JJY	Tokyo, Japan	continuous, 24 hours
	LOL	Buenos Aires, Argentina	1100-1200, 1400-1500, 1700-1800, 2000-2100 & 2300-2400 (0000), daily
	MSF	Teddington, England	0000-0005, 0010-0015, 0020-0025, 0030-0035, 0040-0045 & 0050-0055 minutes after each hour, continuous
	RIM	Tashkent, USSR	0015-0020, 0025-0030, 0035-0040 & 0045-0050 minutes after each hour from 0530-0930 and 1000-1330, September through March. Also, 0230-1530 April through August
	RWM	Moscow, USSR	0010-0021, 0030-0041 & 0050-0001 minutes after each hour, continuous
	WWV	Fort Collins, CO	continuous, 24 hours
	WWVH	Kauai, HI	continuous, 24 hours
10,004	RID	Irkutsk, USSR	continuous, 24 hours
	RKM	Irkutsk II, USSR	0015-0020, 0025-0030 & 0051-0000 minutes after each hour from 1140 to 0110, September through March. Also, 1800 to 0110 April through August
12,000	VNG	Lyndhurst, Australia	2145-0930, daily
14,670	CHU	Ottawa, Canada	continuous, 24 hours
14,996	RTA	Novosibirsk, USSR	continuous, 24 hours
15,000	BPV	Shanghai, P.R.C.	0000-0345, 0400-0545, 0600-0945 & 1000-1200, daily
	BSF	Taipei, Taiwan	0000-0005, 0010-0015, 0020-0025, 0030-0035, 0040-0045 & 0050-0055 minutes after each hour from 0100 to 0900
	JJY	Tokyo, Japan	continuous, 24 hours
	LOL	Buenos Aires, Argentina	1100-1200, 1400-1500, 1700-1800, 2000-2100 & 2300-2400 (0000), daily
	RWN	Moscow, USSR	0010-0021, 0030-0041 & 0050-0001 minutes after each hour, continuous
	WWV	Fort Collins, CO	continuous, 24 hours
	WWVH	Kauai, HI	continuous, 24 hours
15,004	RKM	Irkutsk II, USSR	0015-0020, 0025-0030 & 0051-0000 minutes after each hour from 0140-1110 September through March. Also, 0140-1700 April through August
20,000	WWV	Fort Collins, CO	continuous, 24 hours

kHz	Call	Location	Schedule
	WWVH	Kauai, HI	continuous, 24 hours
25,000	WWV	Fort Collins, CO	continuous, 24 hours

COAST STATIONS & OTHERS

kHz	Call	Location	Schedule
2614	DAN	Norddeich Radio, G.F.R.	1155-1206 & 2355-0006, daily
2775	DAO	Kiel Radio, G.F.R.	1155-1206 & 2355-0006, daily
3170	OLB5	Podebrady, Czechoslovakia	continuous
3268	NPG	San Francisco, CA	0555-0600, 1155-1200, 1755-1800 & 2355-2400 (0000)
4265	DAM	Norddeich Radio, G.F.R.	2355-0006, October to April
4286	VWC	Calcutta, India	1625-1630, daily
4298	CCV	Valparaiso, Chile	1155-1200, 1555-1600, 1955-2000 & 0055-0100
4358	CRX28	Lourenco Marques Naval	0657-0700 & 1857-1900, daily
4525	DIZ	Nauen Radio, G.D.R.	0945-0815 (next day)
4800	XDP	Chapultepec, Mexico	1754-1800, daily; 0154-0200 & 1554-1600, weekdays only
5430	BPV	Shanghai, P.R.C.	1655-1700, 1855-1900 & 2055-2100, daily
6414.5	XSG	Shanghai Radio, P.R.C.	0255-0300 & 0855-0900, daily
6428.5	NPG	San Francisco, CA	0555-0600, 1155-1200, 1755-1800 & 2355-2400 (0000)
6475.5	DAM	Norddeich Radio, G.F.R.	2355-0006, April to September
6502	CRX26	Lourenco Marques Naval	0657-0700 & 1857-1900, daily
6976.7	XBA	Tacubaya, Mexico	1754-1800, daily; 0154-0200 & 1554-1600, weekdays only
7428	FTH42	Paris, France	0852-0901 & 2052-2101, daily
7615	TAO3	Istanbul, Turkey	0835-0845 & 1335-1345, weekdays 0835-0845, Saturdays
8090	NSS	Washington, DC	0455-0500, 1055-1100, 1655-1700 & 2255-2300
8167.5	LQB9	Buenos Aires, Argentina	2205-2350, daily
8502	XSG	Shanghai Radio, P.R.C.	0255-0300 & 0855-0900, daily
8539	VPS35	Cape d'Aguilar Radio	every odd GMT hour
8542	PKI	Jakarta Radio, Indonesia	0055-0100, daily
8558	CCV	Vaparaiso, Chile	1155-1200, 1555-1600, 1955-2000 & 0055-0100
8721	PPR	Rio de Janeiro, Brazil	0055-0100, 0105-0110 & 1355-1400 (not on Sundays)
8638.5	DAM	Norddeich Radio, G.F.R.	1155-1206 & 2355-0006, daily
8650	OBC	Callao, Peru	1555-1600, 1855-1900 & 0055-0100, daily
8686	ZSC6	Capetown Radio, S. Africa	0755-0800 & 1655-1700, daily
8721	PPE	Rio de Janeiro, Brazil	0055-0100, 0105-0110 & 1355-1400 (not on Sundays)
9277.5	NPG	San Francisco, CA	0555-0600, 1155-1200, 1755-1800 & 2355-2400 (0000)
10,775	FTK77	Paris, France	0752-0801 & 1952-2001, daily
11,440	PLC	Jakarta Radio, Indonesia	0055-0100, daily
12,307	OBC	Callao, Peru	1555-1600, 1855-1900 & 0055-0100, daily
12,700	ZSC9	Capetown Radio, S. Africa	0755-0800 & 1655-1700, daily
12,745	VWC	Calcutta, India	0825-0830, daily
12,763.5	DAM	Norddeich Radio, G.F.R.	2355-0006, April to September
12,871.5	XSG	Shanghai Radio, P.R.C.	0255-0300 & 0855-0900, daily
12,966	NPG	San Francisco, CA	0555-0600, 1155-1200, 1755-1800 & 2355-2400 (0000)
12,993	VIP4	Perth Radio, Australia	1255-1300, daily
13,020	VPS60	Cape d'Aguilar Radio	every odd GMT hour 0100-1500
13,043	XDD	Chapultepec, Mexico	1754-1800, daily; 0154-0200 & 1554-1600, weekdays only
13,105.5	PPR	Rio de Janeiro, Brazil	0055-0100, 0105-0110 & 1355-1400 (not on Sundays)

kHz	Call	Location	Schedule
13,873	FTN87	Paris, France	0922-0931, 1252-1301 & 2222-2231, daily
13,953.6	XBA	Tacubaya, Mexico	0154-0200, 1554-1600 & 1754-1554-1600, weekdays only
16,980.4	DAN	Norddeich Radio, G.F.R.	1155-1206, October to April
17,096	VPS80	Cape d'Aguilar Radio	every odd GMT hour 0100-1300
17,164.7	ZSC7	Capetown Radio, S. Africa	0755-0800 & 1655-1700, daily
17,194.4	PPR	Rio de Janeiro, Brazil	0055-0100 daily, 0105-0110 weekdays only
17,550	LQC20	Buenos Aires, Argentina	1005-1150, daily

21 AMVER

The word AMVER is the acronym for "Automated Mutual-assistance VEssel Rescue System." This is a free and voluntary program operated by the U.S. Coast Guard. Ships at sea are encouraged to send sailing plans and position reports through a network of Coast Stations to the AMVER Center in New York City. These data are fed into a large computer and the voyages (about 10,000 per month) can be quickly analyzed in times of emergency. The emergency printouts provide Sea-Air-Rescue agencies with the predicted locations of nearby vessels—expediting any possible assistance. This is a list of Coast Stations with their working frequencies that accept AMVER position reports. All of this traffic is in CW. Some Coast Guard stations are now working SSB on 4394.8, 6523.2 and 8762.2 MHz.

kHz	Call	Location
2582	ZBM	St. George, Bermuda
2670	NMR	San Juan, PR
4136.3	ZLD	Auckland, New Zealand
4253	VAI	Vancouver, BC, Canada
4268	LPD68	Pacheco Radio, Argentina
4275.5	EAC	Cadiz, Spain
4283	ZSJ2	Commcen Cape, S. Africa
4285	VCS	Halifax, NS, Canada
4325	LFW	Rogaland Radio, Norway
4342	IRM	Rome, Italy
4352	NBA	Balboa, Canal Zone
5475	KUQ	Pago Pago, American Samoa
6204	3DP	Suva, Fiji
6351.5	VAI	Vancouver, BC, Canada
6361	KUQ	Pago Pago, American Samoa
6365	IRM	Rome, Italy
6386.5	ZSJ3	Commcen Cape, S. Africa
6404	PCH	Scheveningen Radio, Netherlands
6432	LGU	Rogaland Radio, Norway
6441	DZG	Las Pinas, Philippines
6467	LGU	Rogaland Radio, Norway
6491.5	VCS	Halifax, NS, Canada
6493	VFF	Frobisher, NWT, Canada
6498.5	EAF	Vigo, Spain
	EAT	Santa Cruz de Tenerife
6505.5	EAC	Cadiz, Spain
8465	NMN	Norfolk, VA
	NOX	Adak, AK
8471	NMR	San Juan, PR
8473	EAF	Vigo, Spain
	EAT	Santa Cruz de Tenerife
8476	HCG	Guayaquil, Ecuador
8504	ZLB4	Awarua, New Zealand
8521	VIS26	Sydney, Australia
8527.5	LFN	Rogaland Radio, Norway
8562	PCH	Scheveningen Radio, Netherlands
8566	ZSJ4	Commcen Cape, S. Africa
8574	LGB	Rogaland Radio, Norway
	NMC	San Francisco, CA
8585	KUQ	Pago Pago, American Samoa
8588	DZG	Las Pinas, Philippines
8597	VIP3	Perth Radio, Australia
8614	NBA	Balboa, Canal Zone
6622	PCH	Scheveningen Radio, Netherlands
8646	LPD36	Pacheco Radio, Argentina
8650	NMO	Honolulu, HI
8654.4	PCH	Scheveningen Radio, Netherlands
8678	LFB	Rogaland Radio, Norway
8690	3DP	Suva, Fiji
8709	VCS	Halifax, NS, Canada
8712	VFF	Frobisher, NWT, Canada
8722	VAI	Vancouver, BC, Canada
8726	EAC	Cadiz, Spain
8728	NMF	Boston, MA
8764	FJA	Mahina, Tahiti
8776.8	PCH	Scheveningen Radio, Netherlands
12,700	NMR	San Juan, PR
	3DP	Suva, Fiji
12,711	HCG	Guayaquil, Ecuador
12,718.5	NMN	Norfolk, VA
12,727.5	LGJ	Rogaland Radio, Norway
12,740	ZLB5	Awarua, New Zealand
12,743	NMC	San Francisco, CA
12,760	IRM	Rome, Italy
12,799.5	PCH	Scheveningen Radio, Netherlands
12,849	ZSJ6	Commcen Cape, S. Africa
12,853.5	PCH	Scheveningen Radio Netherlands
12,871.5	KUQ	Pago Pago, Samoa
12,874	VCS	Halifax, NS, Canada

kHz	Call	Location
12,876	LFJ	Rogaland Radio, Norway
12,876	VAI	Vancouver, BC, Canada
12,882	DZG	Las Pinas, Philippines
	NBA	Balboa, Canal Zone
12,889.5	NMO	Honolulu, HI
12,934.5	NMF	Boston, MA
12,952.5	VIS5	Sydney, Australia
12,961.5	LFI	Rogaland Radio, Norway
12,966	PCH	Scheveningen Radio, Netherlands
12,988.5	LPD88	Pacheco Radio, Argentina
12,994	VIP4	Perth Radio, Australia
13,056	EAC	Cadiz, Spain
13,089.5	VFF	Frobisher, NWT, Canada
13,092	EAF	Vigo, Spain
	EAT	Santa Cruz de Tenerife
13,154.5	PCH	Scheveningen Radio, Netherlands
16,948	HCG	Guayaquil, Ecuador
16,948.5	VCS	Halifax, NS, Canada
16,952.4	LFT	Rogaland Radio, Norway
17,002.4	NMR	San Juan, PR
17,007.2	PCH	Scheveningen Radio, Netherlands
17,045.6	LPD46	Pacheco Radio, Argentina
17,074.4	LGX	Rogaland Radio, Norway
17,103.2	PCH	Scheveningen Radio, Netherlands
17,105	IRM	Rome, Italy
17,132	ZSJ6	Commcen Cape, S. Africa
17,136.8	NBA	Balboa, Canal Zone
17,151.2	NMN	Norfolk, VA
17,161.3	VIS6	Sydney, Australia
17,165.6	LFF	Rogaland Radio, Norway
17,170.4	ZLB6	Awarua, New Zealand
17,175.2	EAC	Cadiz, Spain
17,175.2	VAI	Vancouver, BC, Canada
17,176	DZG	Las Pinas, Philippines
17,218.4	NMC	San Francisco, CA
17,237.6	PCH	Scheveningen Radio, Netherlands
17,247.2	NMO	Honolulu, HI
17,280.8	EAF	Vigo, Spain
17,300.5	PCH	Scheveningen Radio, Netherlands

22 FAX & RTTY Weather

This composite list of weather radio stations is published more to help establish identities than to provide details on schedules. Both radio services require special receiving equipment and/or techniques to make use of the broadcast information. RTTY stations encode weather data into 5 figure groups, obviating immediate translation and use. The FAX broadcasters—for the most part—are concerned primarily with ocean and sea conditions. These maps require expert interpretation to become intelligible. And, just as the RTTY stations transmit at differing rates and shifts, the FAX stations transmit at 60, 90 or 120 scans per minutes (the 120 scan being the most common). Weather broadcasters are not known for unexpected frequency changes and many of the channels listed below have been in use for years and are likely to remain in use until the early 1980's. The asterisk is used to signify no correlation with material supplied by the ITU.

kHz	Call	Location	Mode	Schedule
2122	NPM	Honolulu, HI	FAX	continuous
3235	WBR70	Miami, FL	RTTY	continuous
3250	RSJ	Khabarovsk, USSR	FAX	1005-2210, daily
3289.5	GFA21	Bracknell, England	FAX	continuous
3356.5	NSS	Washington, DC	FAX	varies
3622.5	JMH	Tokyo, Japan	FAX	varies
3670	JMG	Tokyo, Japan	RTTY	continuous
3700	DGC70	Elmshorn, G.F.R.	FAX	0905-1014, daily
4013.5	HXX25*	Vernon, France	RTTY	1830
4035	FTE3	Paris, France	FAX	varies
4037.5	SMA4	Stockholm, Sweden	FAX	continuous
4057	DIT	Nauen, G.D.R.	RTTY	1830
4271	CFH	Halifax, NS, Canada	FAX	varies
4344.1	NMC	San Francisco, CA	FAX	0945
4489	GFL26	Bracknell, England	RTTY	1630
4497	SOE34	Warsaw, Poland	RTTY	0915
4526.5	SUU*	Cairo, Egypt	FAX	1900-0500
4555	TCB*	Istanbul, Turkey	RTTY	1800
4563	HGB25	Budapest, Hungary	RTTY	2130
4572	ODT	Beirut, Lebanon	RTTY	2000
4583	DDF3	Bonames, G.F.R.	RTTY	continuous
4610	GFA22	Bracknell, England	FAX	1800-0600
4642.5	LMO34	Jeloey, Norway	FAX	continuous
4647.5	SUC5	Cairo, Egypt	RTTY	2015
4777.5	IMB*	Rome, Italy	FAX	continuous

kHz	Call	Location	Mode	Schedule
4802.5	NPM	Honolulu, HI	FAX	0600-1800
4835	MUX	Birdlip, England	RTTY	0645-2115
4950	SWA	Athens, Greece	RTTY	2100
4975	NPN	Guam	FAX	continuous
	NSS	Washington, DC	FAX	varies
5037.5	KVM70	Honolulu, HI	FAX	continuous
5086	TCB	Istanbul, Turkey	RTTY	2300
5100	AXM32	Canberra, Australia	FAX	varies
	"	"	RTTY	varies
5110	RYP29	Khabarovsk, USSR	FAX	continuous
5122.5	YIA	Baghdad, Iraq	RTTY	2115
5153	ODT	Beirut, Lebanon	RTTY	2315
5172.5	SMA5	Stockholm, Sweden	RTTY	continuous
5185	LRO69	Gral Pacheco, Argentina	FAX	0300, 1400 $ 1900
5206	AOK	Rota, Spain	FAX	continuous
5266	YAN25	Kandahan, Afghanistan	RTTY	continuous
5355	RND77	Moscow, USSR	FAX	continuous
5420	AOK	Rota, Spain	FAX	continuous
5427.5	EPD26	Mehrabad, Iran	RTTY	continuous
5742	9HA	Luga, Malta	RTTY	continuous
5768	LMO25	Jeloey, Norway	RTTY	continuous
5859	DDF5	Bonames, G.F.R.	RTTY	2100-0500
5887.5	IMB32	Rome, Italy	RTTY	1615
5937	WBR70	Miami, FL	RTTY	continuous
5940	WSY70	New York, NY	RTTY	continuous
5945	LMO5	Jeloey, Norway	FAX	various
6640	YKA	Damascus, Syria	RTTY	1830
6790	YMA	Ankara, Turkey	FAX	0500-1320
6792	SUC40	Cairo, Egypt	RTTY	1730
6832	ODT	Beirut, Lebanon	RTTY	1730
6835	GFL22	Bracknell, England	RTTY	1915
6852	IOJ*	Rome (Ciampino), Italy	RTTY	0730
6855	WBR70	Miami, FL	RTTY	continuous
6901	SMA6	Stockholm, Sweden	FAX	continuous
6948.5	4XL	Ben Gurion, Israel	RTTY	2030
6980	7XA97	Algiers, Algeria	RTTY	continuous
7305	JMH2	Tokyo, Japan	FAX	continuous
7346	YIA	Baghdad, Iraq	RTTY	1950
7385	SUC42	Cairo, Egypt	RTTY	1900
7402.5	JMG3	Tokyo, Japan	RTTY	continuous
7417	AOK	Rota, Spain	FAX	continuous
7460	YIA	Baghdad, Iraq	RTTY	2045
7475	RRL	Khabarovsk, USSR	FAX	continuous
7536.5	ZAE	Bahrain	RTTY	2300
7574.5	9KP29	Kuwait	RTTY	1830
7576	JMI2*	Tokyo, Japan	RTTY	continuous
7584	OEM47	Vienna, Austria	RTTY	continuous
7645	NPN	Guam	FAX	continuous
7710	VFF	Frobisher, NWT, Canada	FAX	0815-1815
7722	YIA	Baghdad, Iraq	RTTY	1800
7733.5	ODT	Beirut, Lebanon	RTTY	0030
7750	RAW78	Moscow, USSR	FAX	continuous
7770	KVM70	Honolulu, HI	FAX	varies
7808.4	OEM27	Vienna, Austria	RTTY	continuous
7880	DDF3	Bonames, G.F.R.	RTTY	continuous
7947.5	LMO7	Jeloey, Norway	RTTY	continuous
7952	HZJ	Jidda, Saudi Arabia	RTTY	1945
7956	ZPN46	Asuncion, Paraguay	RTTY	continuous
7980	DIS*	Nauen, G.D.R.	RTTY	1800
7997	SOH49	Warsaw, Poland	RTTY	0915
8040	GFA23	Bracknell, England	FAX	continuous
8057.5	LMO8	Jeloey, Norway	FAX	varies
8077.5	SMA8	Stockholm, Sweden	FAX	continuous
8080	NSS	Washington, DC	FAX	varies
8085	FTI8	Paris, France	FAX	varies
8100	AOK	Rota, Spain	FAX	continuous
8105	SWA78	Athens, Greece	RTTY	1300

kHz	Call	Location	Mode	Schedule
8110	WSY70	New York, NY	RTTY	continuous
8130	WBR70	Miami, FL	RTTY	continuous
8146.6	IMB56	Rome, Italy	FAX	continuous
8163	HXX21	Vernon, France	RTTY	1210
8502	NMF	Boston, MA	FAX	1600 & 1730
8682	NMC	San Francisco, CA	FAX	0945
8714.5	WLO	Mobile, AL	RTTY	
9070	MVX	Birdlip, England	RTTY	0815
9073	TCB	Istanbul, Turkey	RTTY	0645
9162	ODT*	Beirut, Lebanon	RTTY	0600
9230	RXO70	Khabarovsk, USSR	FAX	continuous
9282	ARA	Karachi, Pakistan	RTTY	1930
9290	WFA29	New York, NY	FAX	0750, 1149 & 1950
9315	SWA	Athens, Greece	RTTY	0500
9327.5	WFI29	New York, NY	RTTY	continuous
9357	4XL	Ben Gurion, Israel	RTTY	0845
9389.5	WFH29	New York, NY	FAX	0750, 1149 & 1950
9440	NPM	Honolulu, HI	FAX	continuous
9851	MKS	Akrotiri, Cyprus	FAX	continuous
9872.5	SWA	Athens, Greece	RTTY	0500
9880	DDF9	Bonames, G.F.R.	RTTY	1600
9886.5	GFL23	Bracknell, England	RTTY	1300
9890	CFH	Halifax, NS, Canada	RTTY	1930
	"	"	FAX	varies
9970	JMH3	Tokyo, Japan	FAX	varies
9996	CSY*	Santa Maria Control	RTTY	2015
10,123	SUC41	Cairo, Egypt	FAX	0500-1900
10,216.5	HZN46	Jidda, Saudi Arabia	RTTY	2100
10,255	NPN	Guam	FAX	varies
10,362	DZG30	Manila, Philippines	RTTY	continuous
10,424	YMA8*	Ankara, Turkey	RTTY	0610
10,535	SWA*	Athens, Greece	RTTY	2115
10,555	ODT	Beirut, Lebanon	RTTY	1630
10,720	LRB72	Gral Pacheco, Argentina	FAX	0300, 1400 & 1900
10,726.5	ODT	Beirut, Lebanon	RTTY	2000
10,800	4XL	Ben Gurion, Israel	RTTY	2015
10,865	NSS	Washington, DC	FAX	varies
10,900	AWC	Calcutta, India	RTTY	1800
10,950	WBR70	Miami, FL	RTTY	continuous
10,980	RDD79	Moscow, USSR	FAX	continuous
10,998	SMA9	Stockholm, Sweden	RTTY	continuous
11,030	AXM34	Canberra, Australia	RTTY	varies
	"	"	FAX	varies
11,035	WFL51	New York, NY	FAX	0750, 1149 & 1950
11,062	STK*	Khartoum, Sudan	RTTY	1645
11,086	GFA24	Bracknell, England	FAX	continuous
11,090	KVM70	Honolulu, HI	FAX	varies
11,097	LMO	Jeloey, Norway	FAX	varies
11,153	ODT	Beirut, Lebanon	RTTY	1900
11,453	IMB33	Rome, Italy	RTTY	1615
11,595	7XA98	Algeirs, Algeria	RTTY	continuous
11,638.3	DDF8	Bonames, G.F.R.	RTTY	varies
12,025	PWZ	Rio de Janeiro, Brazil	FAX	1700
12,130	RGD26	Moscow, USSR	FAX	2100-0455
12,145	AOK	Rota, Spain	FAX	varies
12,260	FTM26	St. Assise, France	FAX	0710-1050 & 1135-1815
12,287	DFM28	Bonames, G.F.R.	RTTY	varies
12,750	NMF	Boston, MA	FAX	1600 & 1730
12,786.1	NMC	San Francisco, CA	FAX	0945 & 2145
12,889.5	NMF	Boston, MA	RTTY	1900
13,370	RKU72	Moscow, USSR	FAX	continuous
13,478.5	9HA	Luga, Malta	RTTY	1330
13,496	MKS	Akrotiri, Cyprus	RTTY	1700
	"	"	FAX	0300-1700
13,510	CFH	Halifax, NS, Canada	RTTY	1830
	"	"	FAX	other times, varies
13,597	JMH4	Tokyo, Japan	FAX	varies

kHz	Call	Location	Mode	Schedule
13,600	IMB56	Rome, Italy	FAX	0800-2030
13,620	WSY70	New York, NY	RTTY	continuous
13,622	DGN62	Elmshorn, G.F.R.	FAX	2108-2157
13,624	WBR70	Miami, FL	RTTY	continuous
13,627.5	KVM70	Honolulu, HI	FAX	varies
13,667.5	6VU73	Dakar, Senegal	FAX	continuous
13,737	5YD7	Nairobi, Kenya	RTTY	1630
13,775	ZRO3	Jan Smuts, S. Africa	FAX	0230-2000
13,807.5	NPN	Guam	FAX	varies
13,862.5	NPM	Honolulu, HI	FAX	varies
13,920	AXM35	Canberra, Australia	FAX	varies
13,995	STK70	Khartoum, Sudan	RTTY	0500
14,356	GFL124	Bracknell, England	RTTY	1300
14,395	WBR70	Miami, FL	RTTY	continuous
14,582.5	GFA4	Bracknell, England	FAX	0600-1800
14,630	SUC41	Cairo, Egypt	RTTY	1600
14,737	UMN5	Khabarovsk, USSR	FAX	2225-0955
14,810	ZVK	Rio de Janeiro, Brazil	RTTY	2000
14,880	JMG4	Tokyo, Japan	RTTY	continuous
14,980	HXX34	Vernon, France	RTTY	1210
15,622.5	ODT	Beirut, Lebanon	RTTY	0615
15,700	WMM55	San Francisco, CA	FAX	2100
15,941.5	AOK	Rota, Spain	FAX	0400-2000
15,950	RBI77	Moscow, USSR	FAX	0520-2045
16,135	KVM70	Honolulu, HI	FAX	varies
16,250.5	WSY70	New York, NY	RTTY	continuous
16,400	NPM	Honolulu, HI	FAX	1800-0600
16,410	NSS	Washington, DC	FAX	varies
16,440	WBR70	Miami, FL	RTTY	1155-0500
17,108	FUF	Fort de France, Martinique	RTTY	varies
17,151.2	NMC	San Francisco, CA	FAX	2145
17,365	5YE3	Nairobi, Kenya	RTTY	0650
17,410	WWD*	San Diego, CA	FAX	2300
17,436.5	WFK67	New York, NY	FAX	0750, 1149 & 1950
17,455	HXX23	Vernon, France	RTTY	1210
17,520	HSW61	Bangkok, Thailand	RTTY	1500
17,546	5NK34	Kano, Nigeria	RTTY	1500
17,560	CFH	Halifax, NS, Canada	RTTY	1430
	"	"	FAX	other times, varies
18,093	LRO84	Gral Pacheco, Argentina	FAX	0300, 1400 & 1900
18,220	JMH5	Tokyo, Japan	FAX	varies
18,230	GFL25	Bracknell, England	RTTY	1100
18,240	ZRO4	Jan Smuts, S. Africa	FAX	0600-1900
18,381	JMI4	Tokyo, Japan	RTTY	continuous
18,565	CPV	Oruro, Bolivia	RTTY	1630
18,620	NPN	Guam	FAX	varies
18,700	DFS70	Bonames, G.F.R.	RTTY	1200
18,765	WBR70	Miami, FL	RTTY	continuous
18,788	PPN9*	Rio de Janeiro, Brazil	RTTY	1800
19,275	RDM8	Khabarovsk, USSR	FAX	2225-0955
19,400	VVD99	New Delhi, India	RTTY	0630
19,500	RRG21	Moscow, USSR	FAX	0520-2045
19,529	JMG5	Tokyo, Japan	RTTY	continuous
19,690	AXM37	Canberra, Australia	FAX	2200-1000
19,750	6VU79	Dakar, Senegal	FAX	0830-1800
20,907	WSY70	New York, NY	RTTY	continuous
21,798.5	5NK	Kano, Nigeria	RTTY	0700
21,940	7XA99	Algiers, Algeria	RTTY	1230
21,995	TNL71	Brazzaville, Congo	RTTY	0700
22,527	NMC	San Francisco, CA	FAX	2145
22,618.5	EBA	Madrid, Spain	RTTY	1815
22,867	5YE	Nairobi, Kenya	RTTY	0700
23,331.5	KVM70	Honolulu, HI	FAX	varies
23,880	NPN	Guam	FAX	varies

23 US Air Force & Navy

This list combines the most frequently monitored channels used by the U.S. Air Force and the U.S. Navy in the HF spectrum. All communication is via upper sideband (USB) and center frequencies are shown. Included in this list are many examples of the codenames that have been heard—plus a few of the better known locations that match the codenames. Some major USAF installations do not resort to codenames and instead use plain language: "MacDill" for MacDill Air Force Base in Florida, or "Lajes Airways" for Lajes Field in the Azores. The Navy adds the prefix "Raspberry" to identify Naval Air Stations ("Raspberry Rosie" is the Roosevelt Roads NAS in Puerto Rico). There are periodic, but wholesale revisions in the codenames, the most recent taking place in early 1975.

kHz	Service	Purpose	Calls Monitored
3095	USN	Atlantic Command	Codename "Mike" channel
3265	USN	Atlantic Command	BAKER BOY, SPARTAN, etc.
4377	USN	Pacific Command	BEAVER *(San Clemente Island)*, BUTTERFIELD *(San Diego)*, DUNKIRK *(Honolulu)*, TORREADOR *(San Francisco)*, etc.
4494	USAF	SAC Bravo Net	DISCORD, FOREST ROW, PARKWAY *(Offutt AFB)*, PAYROLL *(Barksdale AFB)*, SPEAR, STORM, etc.
4623	USN	Atlantic Command	MISSIONARY *(Norfolk)*, Kato Soli, Greece, etc.
4707	USN	Pacific Command	BUTTERFIELD *(San Diego)*, DUNKIRK *(Honolulu)*, TORREADOR *(San Francisco)*, OVERWORK *(net call)*, etc.
4725	USAF	SAC Alfa Net	RACKETBUM
4742	USAF	In-flight	Andersen AFB, Guam
4746	USAF	TAC Secondary	LIBERTY, RASPUTIN *(Collins Radio)*, etc.
5328	USAF	SAC	CIVILIAN *(Torrejon AB, Spain)*, POKERFACE, etc.
5447	USN	Atlantic Command	BIG TOP, CALIPER, UNIQUE, etc.
5505	USAF	In-flight	Kadena AB, Okinawa
5688	USAF	In-flight	Andrews AFB, MD & MacDill AFB, FL
5700	USAF	SAC Bravo Net	CLOUD DASHER, DEMOCRAT *(March AFB, CA)*; Andrews AFB, MD; etc.
5703	USAF	TAC Secondary	GLADHAND, RASPUTIN *(Collins Radio)*, SILVER DOLLAR *(mission codename/call)*, etc.
5710	USAF	In-flight	Albrook AFS, Canal Zone; Elmendorf AFB, AK; Thule AB, Greenland
5722	USN	Atlantic Command	HAMPSHIRE *(Ft. Allen, PR)*, etc.
6680	USAF	SAC Bravo Net	CIVILIAN *(Torrejon AB, Spain)*, PAYROLL *(Barksdale AFB)*, POKERFACE, etc.
6686	USN	In-flight	
6697	USN	Atlantic Command	AIRHEART, HAMPSHIRE *(Ft. Allen, PR)*, HICKORY STICK, IVANHOE *(Norfolk)*, KING TIGER, MIDWAY, MISSIONARY *(Norfolk)*, PORTCALL *(Iceland)*, SPARTAN, TRUST FUND, COAL BIN, etc.
6715	USAF	In-flight	Thule AB, Greenland
6720	USN	Atlantic Command	FANFARE *(Morocco)*, OVERWORK,*(net call)*, STONEWALL *(Guam)*, STRONGBOX *(net call)*, etc.
6723	USN	Worldwide	BRICKYARD, CLOUD DASHER, FIRESIDE, GUNTRAIN, KEY WEST, MAGIC MAN *(Ireland)*, MISSIONARY *(Norfolk)*, OUTCRY, RASPBERRY *(various Naval Air Stations)*, RAWHIDE, SAFEKEEPING, SEA LORD *(USS Orikany)*, STONEWALL *(CINCPAC)*, etc.
6738	USAF	In-flight	Andersen AFB, Guam; Clark AB, Philippines; Elmendorf AFB, AK; Hickam AFB, HI; Incirlik AB, Turkey; Loring AFB, ME; Scott AFB, IL & Yokota AB, Japan
6750	USAF	In-flight	Lajes Field, Azores; Loring AFB, ME; MacDill AFB, FL; RAF Mildenhall, England
6753	USAF	TAC	Ascension Island; RCAF; FIRESIDE *(Langley AFB)*
6761	USAF	SAC Alfa Net	GIANT STEP, OUTWAY/ROYAL FLUSH *(Offutt AFB)*, RETAIL/PAYROLL *(Barksdale AFB)*, WEST CONTROL, etc.
6763	USN	Worldwide	CARDPLAYER, HAMPSHIRE *(Ft. Allen, PR)*, NET LOSS, PRESTO, etc.
6787	USN	Worldwide	BRADBURY, HERSHEY, etc.
6992	USN	Atlantic Command	IVANHOE *(Norfolk)*
7895	USN	Atlantic Command	OVERWORK *(net call)*, SHERIFF *(Bermuda)*, etc.
8020	USN	Pacific Command	NKW *(Diego Garcia)*

kHz	Service	Purpose	Calls Monitored
8101	USAF	SAC Bravo Net	
8957	USN	Atlantic Command	HOTEL 8, PHENOMENON *(Jacksonville NAS)*
8964	USAF	In-flight	Andrews AFB, MD; Hickam AFB, HI & Scott AFB, IL
8967	USAF	In-flight	Andersen AFB, Guam; Hickam AFB, HI; Lajes Field, Azores; McClellan AFB, CA; Thule AB, Greenland & Yokata AB, Japan
8972	USN	Kilo Net	BEER GARDEN *(Brunswick, ME)*, CAVEMAN *(Norfolk)*, FIDDLER *(Jacksonville)* HURRICANE *(Bermuda)*, etc.
8989	USN	Atlantic Command	DESTINY, GOLDEN HAWK *(Brunswick, ME)*, PHENOMENON *(Jacksonville NAS)*, etc.
	USAF	In-flight	Elmendorf AFB, AK; Loring AFB, ME; MacDill AFB, FL; McClellan AFB, CA, etc.
8993	USAF	In-flight	MacDill AFB, FL
8997	USN	Atlantic Command	MISSIONARY *(Norfolk)*, OVERWORK *(net call)*, POTENTATE *(Lajes NAS, Azores)*, etc.
9002	USN	Pacific Command	BEAVER, DUNKIRK *(Honolulu)*, OVERWORK *(net call)*, STAGE FINA, TORREADOR *(San Francisco)*, etc.
9006	USN	Atlantic Command	MAGIC MARKER *(N. Ireland)*
9011	USAF	In-flight	RAF Mildenhall, England
9014	USAF	In-flight	Loring AFB, ME
9018	USAF	In-flight	Albrook AFS, Canal Zone
9023	USAF	In-flight	DOG POUND *(Presidential Party Newspeople)*, Andrews AFB, MD
9027	USAF	SAC Alfa Net	GIANT STEP, MIGRATE, SKY BIRD *(net call)*, TEST PATTERN, FOUNDRY, etc.
9057	USAF	SAC Bravo Net	CAPSULE
10,708	USN	Atlantic Command	MISSIONARY *(Norfolk)*
10,767.5	USAF	DCA	AJO, Adana, Turkey
10,807	USN		BOOT CAMP, MIDWAY, etc.
11,049	USN	Atlantic Command	FANFARE *(Morocco)*
11,176	USAF	In-flight	Albrook AFS, Canal Zone; Andersen AFB, Guam; Incirlik AB, Turkey; Loring AFB, ME; MacDill AFB, FL; McClellan AFB, CA & RAF Mildenhall, England
11,180	USAF	SAC (Pacific)	COBBLE STONE, COTTON SEED, etc.
11,191	USN	Pacific Command	BUTTERFIELD *(San Diego)*, DUNKIRK *(Honolulu)*, OVERWORK *(net call)*, TORREADOR *(San Francisco)*, etc.
11,221	USN	Atlantic Command	HAMPSHIRE *(Ft. Allen, PR)*, IVANHOE *(Norfolk)*, etc.
11,236	USAF	In-flight	Elmendorf AFB, AK; Loring AFB, ME; Scott AFB, IL; Yokota AB, Japan, etc.
11,243	USAF	SAC Bravo Net	AMERICAN ELM, BIRCH TREE, DATEABLE, DIETARY, GREAT PLAY, MAST, PROCLAIMER, PANIC, SEA FOWL, SUMMER SCHOOL, etc.
11,246	USAF	In-flight	MacDill AFB, FL
11,247	USAF	In-flight	Clark AB, Philippines
11,255	USN	Atlantic Command	BELMONT, OVERWORK *(net call)*, ACTIVE MOUNTAIN, etc.
11,267	USN	Atlantic Command	HAMPSHIRE *(Ft. Allen, PR)*, IVANHOE, *Norfolk)*, OVERWORK *(net call)*, PORT CALL *(Iceland)*, TRUST FUND
11,271	USAF	In-flight	Lajes Field, Azores
11,461	USN	Atlantic Command	MISSIONARY *(Norfolk)*
12,479	USN	Atlantic Command	DAUNTLESS, SEA WOLF, etc.
13,201	USAF	In-flight	Andersen AFB, Guam; Elmendorf AFB, AK; Hickam AFB, HI; Loring AFB, ME; McClellan AFB, CA; RAF Mildenhall, England; Thule AB, Greenland; Yokota AB, Japan
13,204	USAF	In-flight	Clark AB, Philippines
13,215	USAF	In-flight	Andersen AFB, Guam; Hickam AFB, HI; Incirlik AB, Turkey; Lajes Field, Azores; McClellan AFB, CA; Yokota AB, Japan
13,221	USN	In-flight	
13,244	USAF	In-flight	Lajes Field, Azores; MacDill AFB, FL
13,247	USAF	In-flight	Andrews AFB, MD
15,021	USN	USN	DUNKIRK *(Honolulu)*, BUTTERFIELD *(San Diego)*, TORREADOR *(San Francisco)*, etc.
15,220	USN	Atlantic Command	BOUNCE, CUSTOM HOUSE, HAMPSHIRE *(Ft. Allen, PR)*, MUSICIAN, STENCIL, etc.
17,080	USN	Atlantic Command	MAGIC MARKER *(N. Ireland)*
17,975	USAF	SAC Alfa Net	
17,985	USN	Atlantic Command	IVANHOE *(Norfolk)*

24 Potpourri

This is the catch-all section in this edition of the CONFIDENTIAL FREQUENCY LIST. The emphasis here is on frequency and/or channel utilization (if not included in one of the other categories in this book), or who is likely to use what frequency. At the request of many readers of our previous editions, a number of intriguing VHF/UHF channels have been listed.

kHz	Purpose and/or Callsign(s)
179	WGU20, Edgewood Arsenal, MD, information station for the Civil Preparedness Agency
500	Worldwide CW emergency calling frequency
530	Driver safety roadside information service
1606	" " " " "
1608	Beacon "EPO", El Paso Occidente, Colombia
	Beacon "VSA", Villahermosa, Mexico
1610	Beacon "CTG", Cartagena, Colombia
1613	Beacon "RAB", Rabinal, Guatemala
	Beacon "TEQ", Tequesquitengo, Mexico
1614	Driver safety roadside information service
1615	Beacon "BBU", Bobures, Venezuela
	Beacon "PSO", Pato, Colombia
1618	Beacon "LMM", Los Mochis, Mexico
	Beacon "TUL", Tulancingo, Mexico
1618.65	NOAA marker beacons; also at various discrete frequencies up through 1653.425 kHz
1620	Beacon "CEP", Conception, Bolivia
	Beacon "CVH", Calabozo, Venezuela
	Beacon "EBG", El Bagre, Colombia
	Beacon "IZT", Ixtepec, Mexico
	Beacon "NLD", Nuevo Laredo, Mexico
	Beacon "TEH", Tehuantepec, Mexico
	Beacon "URM", Urman, Venezuela
1625	Beacon "CZM", Cozumel, Mexico
	Beacon "MZT", Mazatlan, Mexico
1630	Beacon "MTR", Montera, Colombia
1635	Beacon "PPN", Popayan, Colombia
	Beacon "TJA", Tarija, Bolivia
1638	Beacon "CME", Carmen, Mexico
	Beacon "CPSW", San Javier, Bolivia
	Beacon "PRN", Tapuruxuara, Brazil
	Beacon "PUI", Tefe, Brazil
	Beacon "ZYL", Santarem, Brazil
1640	Beacon "SOG", Sogamoso, Colombia
1643	Beacon "UPN", Uruapan, Mexico
1643.5	Beacon "MAR', Gral San Martin, Argentina
1644.015	Corps of Engineers beacon at Norfolk, VA; also on 1644.425, 1646.015 and 1646.424 kHz
1645	Japanese whale carcass beacons
1648	Beacon "CMM", Camaguey, Cuba
	Beacon "OAX", Oaxeca, Mexico
	Beacon "TIJ", Tijuana, Mexico
1650	Beacon "QIB", Quibdo, Colombia
1650.015	Corps of Engineers beacon at Memphis, TN; also on 1650.44 kHz
1651.515	Corps of Engineers beacon on Arkansas River; also on 1651.915, 1653.015 and 1653.425 kHz
1655	Beacon "CUC", Cucuta, Colombia
1658	Beacon "CPE", Campeche, Mexico
1663	Beacon "CUL", Culiacan, Mexico
1665	Beacon "CIO", Cicuco, Colombia
1668	Beacon "GDL", Guadalajara, Mexico
	Beacon "HMO", Hermosillo, Mexico
	Beacon "MID", Merida, Mexico
1670	Beacon "CZU", Corozal, Colombia
	Beacon "TIKY", Limon, Costa Rica
1674	Beacon "TEP", Tepec, Mexico
1675	Beacon "MTU", Mitu, Colombia

kHz	Purpose and/or Callsign(s)
1675	Beacon "ULQ", Tulua, Colombia
1678	Beacon "MOJ", Mojoneras, Mexico
1682	Beacon "DGO", Durango, Mexico
	Beacon "NAU", Nautla, Mexico
	Beacon "TGZ", Tuxtla, Mexico
1685	Beacon "DRC", Dos Rios, Colombia
1688	Beacon "CTM", Chetumal, Mexico
	Beacon "PVR", Puerto Villarta, Mexico
1690	Beacon "MDE", Medellin, Mexico
1693	Beacon "GYM", Guaymas, Mexico
1695	Beacon "TBU", Tibu, Mexico
1698	Beacon "ACA", Acapulco, Mexico
	Beacon "FRS", Fresnillo, Mexico
	Beacon "NVJ", Navojoa, Mexico
	Beacon "REX", Reymosa, Mexico
	Beacon "TGZ", Tuxtla, Mexico
1703	Beacon "ZAC", Zacatecas, Mexico
1705	Beacon "AFI", Amalfi, Colombia
1708	Beacon "MXL", Mexicali, Mexico
	Beacon "TAM", Tampico, Mexico
	Beacon "TAP", Tapachula, Mexico
1710	Beacon "BUN", Buensventura, Colombia
1718.5	Beacon "MZL", Manzanillo, Mexico
1718.59	NOAA marker beacons; also on 1718.65, 1798.5 and 1799.6 kHz
1720	Beacon "LET", Leticia, Colombia
	Beacon "TQN", Tres Esquinas, Colombia
	Beacon "VER", Vera Cruz, Mexico
1725	Beacon "SRL", Santa Rosalia, Mexico
1730	Beacon "MLM", Morelia, Mexico
1744.72	Corps of Engineers beacon at Ft. McHenry, MD
1745	Beacon "CGW", Cartago, Colombia
1750	Beacon "PLT", Plato, Colombia
1760	Japanese fishing buoy beacons
2080.4	KA2XTH, Harris Intertype in Gulf of Mexico
2182	Worldwide AM emergency calling frequency
2298.5	Corps of Engineers SSB net; also on 2301.5; 2324.5; 2327.5; 2343.5; 2346.5; 2348.5; 2351.5; 2602.5 and 2605.5 kHz
2398	NOAA marker beacons; also on 2456.0; 2510.0; 2848.0; 3281.0; 3300.4 and 3306.4 kHz
2776	NOAA National Weather Service
3023.5	Worldwide AM emergency frequency for search and rescue at the scene of the disaster
3230	State of Alaska emergency frequency
3278.5	Bureau of Indian Affairs
3281	Special aeronautical for flight tests
3288.465	Corps of Engineers beacon at Norfolk, VA; also on 3292.4 kHz
3303.4	Corps of Engineers beacons on Arkansas River; also on 3306.4 kHz
3335	Assigned to the ERDA
3340	Ship-to-ship USSR Pacific Ocean fishing fleet
3382.5	Rocket launching site, Woomera, Australia (VMG2)
3593	Backup police net in Switzerland (HEP, Berne; HEP3, Lausanne; HEP4, Geneva; HEP5, Basel and HEP6, St. Gallan)
3625.5	SSB communication net between LORAN stations in the western Mediterranean Sea
3670	Transpeninsular Baja California (Mexico) Highway emergency patrols (SSB)
3801.5	International Red Cross, Geneva, Switzerland (HBC88)
4050	SSB communications net between LORAN stations in the mid-Pacific Ocean (USCG)
4057	Huge communications net in Argentina (AM, CW and SSB)
4064.5	Police net between Tarawa and Gilbert Islands (SSB)
4125	Supplementary foreign Maritime distress frequency in Mexico, Central and South America, and the South Pacific Ocean
4165	Ocean buoy telemetry
4372.4	Mississippi/Ohio River "Coast" stations on SSB (WCM, Pittsburgh, PA; WFN, Louisville, KY; WGK, St. Louis, MO and WJG, Memphis, TN)

kHz	Purpose and/or Callsign(s)
4383.8	State of Alaska SSB emergency radio channel
4388.4	SSB Coast stations (KMI, Dixon, CA and WOO, Ocean Gate, NJ)
4394.8	SSB USN stations (NMC, San Francisco, CA and NMO, Honolulu, HI)
4417.2	SSB Coast Stations (KQM, Kahuku, HI; WAS, Duluth, MN and WLC, Rogers City, MI)
4430	SSB Coast Stations (WAS, Duluth, MN and WLC, Rogers City, MI)
4464.5	Assigned Civil Air Patrol (SSB)
4582	" " " " (SSB)
4634.9	SSB net (KBE364, Baton Rouge, LA; KKT446, Oakville, LA; KKT447, New Orleans, LA and KLA712, Iberia, LA)
4638.9	New York State Power Pool, SSB (also on 4752.4; 5047.9; 5056.9; 5075.9 and 5103.4 kHz)
4639.15	KKT352, Harvey, LA (SSB)
4641.75	KOM921, S. Phoenix, AZ (SSB)
4654	Special aeronautical for helicopters (off-shore drilling)
4668	FACE Project; KJY74, Miami, FL; NOAA Hurricane Research
4721	"Crown" (airborne White House) to Andrews AFB, MD
4780	Victoria, Australia police net (VKC, Melbourne)
4790.5	Large SSB communications net in Cuba
4792.9	SSB net (KLP64, Stuckagain, AK; KLX88, Atwood, AK; KWI74, North Slope, AK; KWI79, Anchorage, AK and WAS26, Fairbanks, AK)
4817	Backup police net in Switzerland (HEP, Berne; HEP3, Lausanne; HEP4, Geneva; HEP5, Basel and HEP6, St. Gallen)
4851.5	Corps of Engineers USB net
4857.5	SSB communications net between LORAN stations in the North Sea
4880	Australian Forestry Commission
	Ontario (Canada) Forestry network of AM stations
4917	Backup police net in Switzerland (HEP, Berne; HEP3, Lausanne; HEP4, Geneva; HEP5, Basel; HEP6, St. Gallen and HEP49, Waltikon)
4994.5	Spanish emergency channel
5037	Vatican (HVA) to Berne, Switzerland and London, England
5135	State of Alaska emergency net
5145	Port Augusta, South Africa Flying Doctor Service
5167.5	Net of CW/AM (SSB?) stations in Alaska
5195	" " " " "
5201	Austrian Police network (SSB)
5218.5	Bahamas Police network (SSB)
5222.5	Brazilian Police network (SSB)
5242.5	Alaskan AM network between Anchorage, McGrath, Eagle and Fairbanks (may now be SSB)
5286	same as above, but licensed for SSB (KWA400, Anchorage; KWA430, Ft. Yukon; KWA440, Eagle; KWA450, Fairbanks and KWA452, Tanacross)
5289	same as above
	SSB net between KAE80, McCook, NE; KAE82, Bonny Dam, CO and KAE83, Cedar Bluff, KS
	SSB net between KMM829, Fagamalo, American Samoa; KUQ20, Pago Pago; KUQ21, Tau, KUQ22, Ofu and KUQ23, Swains Island
5308	Assigned to the ERDA
5318.5	SSB communications net for LORAN stations in or around the State of Alaska
5401.5	Corps of Engineers USB net
5423.5	SSB communications net for LORAN stations in or around the State of Alaska
5680	Worldwide AM/CW/SSB emergency calling frequency
5626.5	Ocean Stations C7A (62°-00'N 33°-00'W); C7I (59°-00'N 19°-00'W) and C7M (66°-00'N 02°-00'E)
5696	US Coast Guard USB in-flight
5700	Assigned to SAMTEC
5751	Assigned to ERDA
5766.5	Large USB communications net in Canada
5793	CW and FSK communications link between GFT26, Bracknell, England and C7I or C7M, Ocean Station Vessels (see also 5626.5 kHz)
5895	Peruvian Police network
5947	Assigned to ERDA
5962.5	Assigned to Civil Preparedness Agency
6107.5	Assigned to Civil Preparedness Agency

kHz	Purpose and/or Callsign(s)
6211.8	Mississippi River traffic (SSB)
6215.5	Supplementary foreign Maritime distress frequency in Mexico, Central and South America, and the South Pacific Ocean
6247	Ocean buoy telemetry
6255	Petroleum off-shore drilling network
6474	Japanese Self-Defense Force (CW)
6523.2	SSB USN stations (NMC, San Francisco, CA; NMO, Honolulu, HI and NOJ, Kodiak, AK)
6526	In-flight commercial airlines network
6645	FACE Project; KJY74, Miami, FL; NOAA Hurricane Research
6659	Special aeronautical for in-flight testing
6748	USSR Aeroflot CW traffic
6753	USAF TAC emergency channel
6756	"Crown" (airborne White House) to Andrews AFB, MD
6797	French Space Center, Colomb-Beehar, Algeria
6810	Australian monitoring net--similar to FCC Backup Net on page 44 (VNA2, Sydney; VNA3, Melbourne; VNA4, Brisbane, VNA5, Adelaide; VNA6, Perth and VNA7, Hobart)
6870	FAA Northern Region net
6907	Assigned to Civilian Preparedness Agency
6927	Weather link between Colombia and Honduras (LSB)
6945	HBX76 transmits epidemiological bulletins at 0800 daily
6949.9	SSB net (KLP64, Stuckagain, AK; KLX88, Atwood, AK; KWI74, North Slope, AK; KWI79, Anchorage, AK and WAS26, Fairbanks, AK)
6977.5	NOAA, National Weather Service
6998.5	International Red Cross, Geneva, Switzerland (HBC88)
7316	Rhodesian Police network
7320	FXP95, Papeete, Tahiti FSK aero ground station
7340	Assigned to the Civil Preparedness Agency
7369.9	SSB net (KLP64, Stuckagain, AK; KLX88, Atwood, AK, KWI74, North Slope, AK; KWI79, Anchorage, AK and WAS 26, Fairbanks, AK)
7442.5	SSB communications net for LORAN stations throughout the Mediterranean Sea and in or around the State of Alaska
7476.5	FAA backup network in Southeastern Region (SSB)
7480	State of Alaska emergency channel
7512.5	SSB communications net for LORAN stations in and around the North Sea (DML, Sylt, G.F.R.; JXP, Jan Mayen, Norway; NMS, Shetland Islands; OUN, Ejde, Faroe Islands and TFR, Sandur, Iceland)
7550	CW network of aero ground stations in Tanzania
7555	Vatican (HVA) to Berne, Switzerland and London, England
7580	ELE7, Harbel, Liberia to Firestone plant, Akron, OH
7660	Australian Territorial Police network
7700	Assigned to the ERDA
7775	WQA27, Akron, OH to Firestone plantations in Harbel, Liberia
7777	CW network of aero ground stations (FKP44, Djibouti, Afars & Issas; 4XL, Ben Gurion, Israel; 5YD, Nairobi, Kenya, etc.)
7788	Ocean Station vessel C7K to Bracknell, England (CW/FSK)
7830	Peruvian Police network
8013.5	Assigned to the ERDA
8097.5	Vatican (HVD) to Buenos Aires, Argentina; Beirut, Lebanon; Lisbon, Portugal; Madrid, Spain and New York, NY
8115	Probably the largest HF network in existence: hundreds of AM stations in Argentina
8165	Port Augusta, South Africa Flying Doctor Service
8330.5	Ocean buoy telemetry
8364	Worldwide CW emergency channel
8762.2	SSB USN stations (NMC, San Francisco, CA and NMO, Honolulu, HI)
8796.5	NORAD net
8913.5	Ocean Station vessel C7A (66°-00'N 33°-00'W)
8917	Special aeronautical for new aircraft testing
8962	FACE Project, KJY74, Miami, FL; NOAA Hurricane Research
8977	USSR Aeroflot CW traffic
9029	Assigned to SAMTEC
9043	Beacon "K", Kure Reef
9116	East African Flying Doctor Service, Nairobi, Kenya (5Z4FDS)
9278.5	USB communications net for LORAN stations along Atlantic Coast

kHz	Purpose and/or Callsign(s)
9414	NASA tracking net channel
9918	Assigned to ERDA
9940	Australian monitoring net (see 6810 kHz)
10,003	Worldwide SSB emergency channel
10,093	In-flight commercial airlines network
10,215	Beacon "U"
10,265	WQB20, Akron, OH to Harbel, Liberia
10,310	ELE10, Harbel, Liberia to Akron, OH (Firestone)
10,370	SSB communications net for LORAN stations in Alaska
10,505	Australian Territorial Police network (CW)
10,732	French Space Center, Colomb-Beehar, Algeria
11,312	USSR Aeroflot CW traffic
11,375	Special aeronautical for new aircraft testing
11,402	HBX76 transmits epidemiological bulletins at 0800 daily
11,555	Assigned to the ERDA
11,602.9	Alaskan SSB net (see 7369.9 kHz)
11,606	SSB communications net for LORAN stations in western Pacific Ocean (Caroline Islands, Japan, Ryukyu, etc.)
11,685	Vatican (HVA) to Buenos Aires, Argentina and New York
11,957	Civil Preparedness Agency channel
12,055	Vatican (HVA) to London, England; Beirut, Lebanon; Lisbon, Portugal; Madrid, Spain and Berne, Switzerland
12,151.5	SSB communications net for LORAN stations in Alaska
12,338	NORAD net
12,482	Ocean buoy telemetry
13,120	Once used for USSR to USA "spy" instructions
13,131	NORAD net
13,218	Assigned to SAMTEC
13,221.5	USSR Aeroflot CW traffic
13,248.5	"Crown" (airborne White House) to Andrews AFB, MD
13,260	FACE Project; KJY74, Miami, FL; NOAA Hurricane Research
13,324.5	Ocean Station vessel C7A (66°-00'N 33°-00'W)
13,356	In-flight commercial airlines network
13,421.5	Large SSB network in Canada
13,560	International Special Industrial/Scientific/Medical channel
13,730	Australian Territorial Police network (CW)
13,484	NASA tracking net channel
13,915	International Red Cross
13,945	ELE13, Harbel, Liberia and WQB23, Akron, OH (Firestone)
13,965	International Red Cross
13,998.5	International Red Cross
14,462	HBO34 transmits epidemiological bulletins at 0800 daily
14,560	Vatican (HVA) to London, England; Lisbon, Portugal and Madrid, Spain
14,585	French Space Center, Colomb-Beehar, Algeria
14,605	ELE14, Harbel, Liberia to Akron, OH (Firestone)
14,993	Worldwide SSB emergency channel
15,022	NORAD net
15,476	NASA tracking net channel
15,710	CW network of aero ground stations throughout Middle East
15,738	CW net between Argentine and Peruvian police
15,780	ELE15, Harbel, Liberia and WQB35, Akron, OH (Firestone)
15,940	ELE25, Harbel, Liberia and WQB25, Akron, OH (Firestone)
16,190	Reportedly RGW26, Moscow, USSR RTTY diplomatic channel to UN
16,245	CW network of aero ground stations along east coast of Africa
16,639	Ocean buoy telemetry
17,335	NORAD net
17,445	Vatican (HVA) to New York
17,487	Assigned to SAMTEC
17,901	FACE Project, KJY74, Miami, FL; NOAA Hurricane Research
18,087	Japanese Police network
18,215	Brazilian Police network
18,744	NASA tracking net channel
18,880	Australian monitoring net (see 6810 kHz)
18,950	HBO88 transmits epidemiological bulletins at 1515 daily
19,625	HBO75 transmits epidemiological bulletins (Thursdays) 0800
19,993	Worldwide SSB emergency channel

kHz	Purpose and/or Callsign(s)
19,995	P.R.C. and USSR satellite telemetry channel
20,753	International Red Cross (primary channel)
21,714	KQ2XSG, Alpine, NJ to KQ2XSI, research vessel (SSB)
21,807	Argentine Police network
22,163	Ocean buoy telemetry
24,030	Oil spill cleanup assigned channel
25,080	Oil spill cleanup assigned channel
27,120	Industrial/Scientific/Medical channel
36,250	Oil spill cleanup assigned channel
38,890	Corps of Engineers
38,910	Corps of Engineers
40,680	Industrial/Scientific/Medical channel
41,060	FCC nationwide mobile units
47,420	American Red Cross mobile units
49,120	Royal Canadian Mounted Police mobile units
121,500	Worldwide Emergency calling frequency
122,925	Aircraft coordinating for wildlife tracking
123,050	FACE Project, KJY74, Miami, FL; NOAA Hurricane Research
139,580	USN, Washington, DC
140,640	USN, Washington, DC
142,740	Grumman Aerospace, Stuart, FL tests
143,580	Grumman Aerospace, Stuart, FL tests
143,900	Assigned to the Civil Air Patrol (CAP); also 148,150
149,195	Calypso (Cousteau) through ATS-3 satellite; also on 149,220; 149,245 and 149,265 kHz
150,980	Oil spill cleanup assigned channel; also 154,585 kHz
154,950	Royal Canadian Mounted Police mobile units; also 155,670 kHz
155,160	American Red Cross and National Ski Patrol
155,175	National Ski Patrol; also on 155,205; 155,235; 155,265; 155,280 and 155,295 kHz
156,300	Liaison channel between USCG and civilians for search/rescue
156,650	Bridge-to-bridge navigational communications
156,750	Hydrographic, shore-to-ship (Ch 15)
156,800	Worldwide emergency calling frequency (Ch 16)
157,075	Oil spill cleanup portable units; joint with Canada
157,100	Liaison channel between USCG and civilians for search/rescue
157,125	Corps of Engineers
158,445	Oil spill cleanup assigned channel; also 159,480 kHz
162,300	Federal Aviation Administration
162,875	Border Patrol; also 162,900 and 162,925 (repeater out) kHz
163,000	Bureau of Customs (repeater out)
163,025	Corps of Engineers
163,125	Bureau of Indian Affairs (also 167.125 kHz)
163,175	Bureau of Reclamation
163,200	United States Marshals
163,412.5	Corps of Engineers; also 163,437.5 and 163,537.5 kHz
163,625	Border Patrol (repeater out)
163,775	Border Patrol (simplex)
163,812.5	United States Marshals
163,926.5	Department of Justice (south)
163,987.5	Department of Justice (east)
163,988	Department of Justice (west)
164,200	Corps of Engineers
164,915	Post Office, Transportation Units
165,037.5	Corps of Engineers; also 165,062.5 kHz
165,212.5	United States Secret Service; also 165,375 and 165,787.5 kHz
165.912.5	Internal Revenue Service
166,170	Federal Aviation Administration
166,212.5	Governmental Officials Protective Service
166,280	Bureau of Customs liaison with Mexico
166,400	United States Secret Service
167,562.5	Department of Justice (nationwide); also 167,725 kHz
168,220	Governmental Officials Protective Service; also 168,400 kHz
168,530	Veterans Administration
168,630	Bureau of Customs
169,300	Federal Aviation Administration
169,425	Corps of Engineers; also 169,450 kHz

kHz	Purpose and/or callsign(s)
169,612.5	Department of State
169,925	Executive Branch messenger service
170,425	Forest fire communications (non-government), west of the Mississippi River; also 170,575 and 171,475 kHz
170,475	Forest fire communications (non-government), east of the Mississippi River; also 171,425 and 171,575 kHz
170,875	Bureau of Customs
171,050	Department of Justice; also 171,150 kHz
171,250	Bureau of Customs
171,350	Department of Justice
171,387.5	Department of the Treasury
171,620	Bureau of Customs
171,925	Corps of Engineers
172,775	National Park Service
173,562.5	Cape Kennedy Fire Department; also 173,662.5 kHz
236,600	US Military control towers (primary)
241,00	US Military control towers (secondary)
243,000	Worldwide emergency beacons
255,400	US Military flight service stations; also 272,700 kHz
257,800	FAA control towers
263,600	US Military ground control approach
282,800	US Military emergency search/rescue shared with USCG
290,900	US Military ground control approach
292,100	USAF TAC control towers
304.800	FACE Project, KJY74, Miami, Fl; NOAA Hurricane Research
311,000	USAF SAC emergency channel
340,200	US Military control towers; also 354,000 and 360,200 kHz
349,400	USAF TAC control towers
363,800	US Military ground control approach
381,800	US Coast Guard; also 383,900 kHz
417,050	Border Patrol
459,700	Corps of Engineers, marine; also 459,725 and every +25 kHz through 459,875 kHz
467,625	KAA8102, Disneyland, Orlando, FL

MILITARY PLANES

258.100

Listeners are reminded that the U.S.A. Communications Act of 1934, Section 305, as amended (47 U.S.C. Section 605), prohibits anyone, not authorized by the sender, from intercepting any radio communication not intended for reception by the general public, and divulging or beneficially using that information from such monitoring.

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Robert B. Grove

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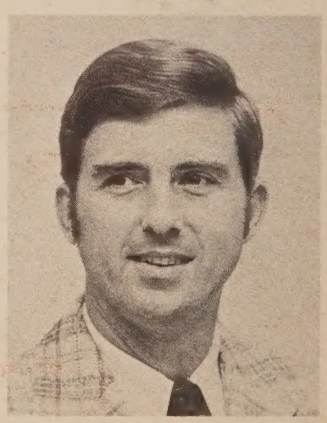
ROBERT B. GROVE became interested in shortwave listening shortly after the close of World War II. An amateur radio ticket (W8JHD) quickly followed. A graduate of Kent State University with a Masters Degree from Florida Atlantic University, Bob has been a museum-planetarium director and TV public affairs director. He is now engaged in his favorite vocation, teaching physics and communications at the high school level (Nova High School, Ft. Lauderdale, FL)—the ham radio club there is no coincidence. Currently holding Advanced Class license, WA4PYQ, Bob has authored a variety of articles for electronics publications and is working on a new book about radio communications surveillance and monitoring techniques, as well as, the next "CFL".



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